# AMBRICAN RAILROAD JOUR

A SA COLOR OF STATE O

## AND GENERAL ADVERTISER

FOR RAILROADS, CANALS, STEAMBOATS, MACHINERY

AND MINES.



ESTABLISHED



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SATURDAY, AUGUST 28, 1847.

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Correspondents will oblige us by sending in their mmunications by Tuesday morning at latest.

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#### AMERICAN RAILROAD JOURNAL.

PUBLISHED AT 105 CHESTNUT ST. PHILADELPHIA.

Saturday, August 28, 1847.

Auburn and Rochester Railroad. We have received the following statement in relation to this road. It is gratifying to know that the company is doing so well—and especially to learn that they are relaying the road with heavy iron.— Such a course will soon be-if it is not alreadyabsolutely necessary, that higher speed and heavier freights may be the order of the day. The time is at hand when a large amount of freight must pass over this road.

## Office of the Auburn and Rochester R. R. Co. Canandaigua, August 7, 1847.

Sin: Herewith we send you a statement of the receipts and expenses of operating our road for the last six months, by which you will perceive that af-ter paying a semi-annual dividend of 4 per cent. to our stockholders, on the 1st instant, we have over, of the six months' profits, \$52,327 35 to add to our account of surplus profits, making said account now good for \$261,961 29.

We have commenced relaying the road with a heavy iron rail, 60 pounds to the yard. We intend to complete 20 miles this summer, 30 miles next sea-son, and the remaining 28 miles in the summer of 1849. The funds necessary for this object are procured (by the issue of new stock, taken up on the line of the road, and bonds convertable into stock,)

miles. This amount of stock we can at any time. They have at length accepted the only route ope shall not dispose of it.

749 60. When completed with the iron rail, it will is anticipated even by its warmest friends. have cost, including depots, machine shops, store houses, locomotives, passenger cars, freight cars, etc, two millions and a half of dollars.

#### Yours respectfully,

HENRY B. GIBSON, President.

CHARLE	SEYMOUR,	Treasurer.	A STATE OF	中村里	
1847, Feb	ruary 2, sur	plus	8	109,633	94
Receipts	in February.	1847		13,995	89
M. H.	March,			17,601	87
44	April,			34,285	80
- 44	May,			39,637	16
46	June,	44		36,842	
a	July,			42,538	16
Mail serv	rices for six n	nonths		5,850	00

and the president density and at	300,385	20
1837, August 2, surplus profits	161,961	29
Expenses in February, 1847	\$11,736	50
" March, "	12,684	40
April, a	11,915	96
May,	11,474	43
June, "	10,569	97
July, "	8,855	51
Disbursements by treasurer	3,005	04
Emigrant service	1,432	16
Interest on State stock to 1st July	5,500	00
Interest on bonds to 1st inst	5,250	00
Dividend paid 1st August, 1847, say four	398 S.C.	

the last Legislature of Virginia, which authorizes its construction through that State, on condition that Wheeling is made the terminus.

The question of terminus has coat this company a great deal of trouble—and a large outlay of capi We intend tal. They have been for years arrested in their progress, and the business community has been taxed millions of dollars, in time and money, for want of less than 70s, for mixed Nos. In Swedish iron a railroad from Cumberland to the Ohio river.

This delay ought not to have occurred; but the line of the road, and bonds convertable into stock,) company has been dependent upon foreign legisla of last Mining Journal, a fair amount of by within two hundred and fifty thousand dollars of the tion—that is, the legislation of States having rivel has been done. The fluctuations in price has

of the entire road, from Auburn to Rochester, 78 greater than the mountains in their path, to over get taken up in the country, but for the present we them; and, even if it is not the best that could be found, it is to be hoped that it will be completed at The cost of the road up to the 1st inst., is \$1,880,- an early day, and that it will be found far better than

Coal Trade.

We have been furnished with the following state ment of the coal sent to market by the Schuylkill canal—which we shall publish as furnished weekly. SCHUYLKILL NAVIGATION .- Week ending Augus 19th, 1847.

Pottsville and Port Carbon Schuylkill Haven Port Clinton	Tona evit6,144 031,222 1100 00
This week	7,366 14
Total	121,956 14

"From our official returns," says the Railway Chronicle of July 24th, " it appears that the amo of traffic for the last week, on upwards of 3,153 miles of railway, was £185,955, thus accounted for : £106,542 for the conveyance of passengers only, £40,264 for the carriage of goods, and a remainder of £39,149 for passengers and goods together, not respectively apportioned; being an increase of 25,-165 over the corresponding week of last year, when the mileage was about 2,290."

From this it appears that 864 miles of road have been brought into use during the past year—or more than one-fourth part of the railroads in the kingdom from which returns of traffic have been made.

Baltimore and Ohio Railroad Termination.

At a meeting of the Stockholders of this read, on the 25th inst., it was decided to accept of the law of supply of English railway and mining papers, from which we make the following extracts

The Iron Trade.—The price of rails, July 2 s quoted at £9 per ton. A corre Mining Journal says that " a good demand es for Welsh bars; and price is very firm. pig has fluctuated a little this week, but the transitions have been bimited, and holders will not teel very little doing since last Mining Jour

Glasgoro Pig Iran Trade, July 22. has been done. The fluctuations in price have b full amount required to complete the relaying, etc., interests and therefore it has had difficulties, far frequent, but inconsiderable in extent. Sales of nixed Nos. have been made at 70s. and 71s. on 14 days. There is less inquiry to-day than for ome days past. For mixed Nos, the price may be nated nominally 70s, cash—free on hoard."

On the 50th the quomations for ratio was the same

as on 23d, £9 average, and other kinds "remain without change as to prices, but the demand is not so good as it was about two weeks sence; of Swed-lah iron and steel no recent sales."

Glasgow Pig Iron Trade, July 29 .- We have had very quiet week in pig iron; at the end of last reek prices recoded, and mixed Nos. were sold at 9s., cash; the market has since rallied a little, and anles effected at 69s. 6d.; mixed Nos. have been sold this week at 71s. 6d. to 72s., three months, open de-livery. We quote the price of mixed Nos. at 69s. cash, free on board, buyers at 69s

to 70s.—cash, free on board, buyer.
Railway Engineers in Parliament.—The Railway ays that "the first railway engineer elected into parliament is Mr. Locke, for Honiton."

"Mr. Booth's suggestion for adopting uniformity of time is likely to be practically realized soon.— The electric telegraph company are now making arrangements to communicate the true time, as observed at the Royal Observatory at Greenwich, to every station on the various lines of railway where mpany has a telegraph station, and, of course, to all large towns throughout the kingdom."

Cost of an Excursion from London to Baden, Brus sels, Paris, and back to London.-We find the followcharges for luggage in a journey from London to Baden-Baden, and from the latter via Brussels, to on either the Belgian or German lines. On the holding a majority of engines and cars in use. French Northern luggage of 60 lbs. was, but all in charged."

the 136 previously sanctioned, make 189 railway evidently prepared by Oliver Evans. A few of bills which have received the royal assent during the these notes I shall proceed to extract. ion of 1847. The aggregate capital authorized to be raised by those bills amounts to £26,156,735 and the loan to £8,611,011—total £34,767,746. The gate number of miles thus authorized to be structed is 1,415, chiefly consisting of short

Railroad from Springfield (0.) to Columbus.

A reconnoisance of so much of this proposed road,
says the Springfield Republican, as lies between
Springfield and London, was made by an engineer, mpanied by Mr. Forrer, of Dayton, and other men, during the past week. The route was and very favorable. Passing up the valley of fill Run about two miles, the route strikes the section line south of Springfield, on a ridge between aver Creek valley, and the waters of the Little Miami. This line may be travelled with but a sine slight variation on the Darby Plains very little of London. This route will be surveyed withay, and an estimate made of the cost of conLocomotive Engines and Cars on the Different Railroads in the United States. In reply to our request in the Journal of 24th ult., we have been furnished with the following tabular ment of the name; and length of the railways in the State of New York, to of locomotives and cars employed on them January 1, 1847.

NAMES OF RAILWAYS.	Longth of road.	No. of locomotives.	No. of passeng's cars.	No. of freight care.	No. of mail, baggage and other cars.	Total No of cars.
Molawk and Hudson Ttica and Schenectady Syracuse and Utica Auburn and Syracuse Auburn and Rochester Tonawanda Attica and Buffalo Buffalo and Niagara Falls Saratoga and Schenectady Schenectady and Troy Renssalaer and Saratoga Long Island Cayuga and Susquehannah Albany and West Stockbridge Hudson and Berkshire Troy and Greenbush New York and Erie New York and Harlem Loekport and Niagara Falls Lewiston Skeneateles * Undivided interest of 5 roads in 70 cars, viz.	*17/ *78 *53 *26 *78 *43 *311 *22 *20 *25 *56 *30 *38 *31 *6 *62 *42 *26 *5	6, 15 9 4 10 6 4 3 3 3 2 2 15 1 none. 4 3 3 9 8 2 none, none.	9 8 6 19 4 7 15 22 4 none. 3 3 9 42 8 6 1 52	36 100 40 228 40 32 4 8 40 11 10 13 none. 40 27 40 11 10 13	8 4 2 2 3 2 2 1 0 60 5 9 1 18	37 100 49 22 28 56 42 18 14 50 28 56 19 none, 45 22 135 68 18 13 3 70
Total	7541	107	212	542	139	893.

Engineer's Office of Great Western Railway, Hamilton, July 30, 1847.

DEAR SIR: In your Journal of 24th instant, you ask, "How many cars, passenger and freight, are ing statement in Herapath's Journal of July 31st: there on the American railways?" Above I send you a statement, which I believe to be correct, of "In the Bologne Gazette there is a statement the number of locomotives and cars on all the railways of the State of New York, January 1st, 1847. there on the American railways?" Above I send you a statement, which I believe to be correct, of thowing the fares for conveying one person, and the I hope some one will give those in other States, as it would be interesting to know the whole number.

With respect, yours, etc. C. B. STUART.

This is precisely what we wanted in relation to the roads in the State of New York-for which we Paris, and thence back to London. Miles travelled are much indebted to Mr. Stuart, who has so promptly responded to our call, in the midst of his ardn-1,514; time occupied in travelling, 1114 hours;—ous duties as engineer of that important work, the 'Great Western (Canada) Railway." We shall be fares, £10 10s. 6d.; charge for luggage, £1 7s. 6d. equally obliged to other friends who may prepare similar statements in relation to other States, or for total, 211 18s. There were from 90 to 96 pounds individual roads, and we will perform our part of the work by including them in our next edition of of luggage carried. No luggage was allowed free the " Table of Railroads in the United States," should we be successful in getting returns from roads

> For the American Railroad Journal. The First Locomotive.

extremely rare. It is entitled "Patent Right Oppression Exposed." The text which is ironical, and in burlesque verse, is probably from the pen of From this statement, it appears that Mr. Evens Railway Bills Sanctioned by the Queenin burlesque verse, is probably from the pen of
"On Thursday, 23d July," says Herapath, "53
Richard Folwell, the publisher. The notes, which
discovered in 1773, "the principles on which steam-

> by Mr. Evans in 1773. Some years after a very lumbering vehicle on dry land. wards he applied to the legislature of Pennsylvania, to secure him the right for twentyfive years, in which application he was directed and assisted by his friend, George Latimer, Esq., but they notwithstanding treated his memorial as if they thought him insane. He then applied to the legislature of Maryso straitened as not to admit it,"

that time contending about their originality This is less than two pence per mile.

The First Lecomotive.

The First Lecomotive.

I have a small volume, copies of which, though gines as were then known. Besides, he entitled of this line will be opened for traffic in the averagely rare. It is entitled "Patent Right Op-

"On Thursday, 23d July," says Herapath, "33 Richard Folwell, the publisher. The work, were boats and steam wagons may be driven," though it is a reviously sanctioned, make 189 railway evidently prepared by Oliver Evans. A few of was not till 1786 or 1787 that he made his application to the legislature of Pennsylvania. Seventeen "The principles on which steamboats and years afterwards, as appears from the following exsteam wagons may be driven, were discovered tract, he succeeded in propelling by means of steam

"Mr. Evans constructed for the Board of Health, Philadelphia, 1804, at the corner of Ninth and Market streets, a machine for cleaning docks. It consisted of a heavy flat, with machinery to be wrought by a steam engine, the cylinder of which was only five inches He then applied to the legislature of Mary diameter, stroke of piston nineteen inches; land, where, through the influence of Jesse the weight of the whole complete was equal Hollingsworth, Esq., then one of its members, to that of two hundred barrels of flour. This Hollingsworth, Esq., then one of its members, to that of two hundred barrels of flour. In the obtained a patent for fourteen years, which, he conceived to be a fine opportunity to conhowever, was too short a period, or people of wealth were not sufficiently acquainted with the principles, to be interested in making the experiment, and his own circumstances were try the experiment, made wheels and other try the experiment, with wooden axles, to so straitened as not to admit it."

temporary machinery, with wooden axles, to

"In this petition he did not include steam apply the power of this little engine, with
boats, because Ramsey and Fitch were at which he propelled this great weight up MarSchuvlkill, about a mile and a half."

This, is, I believe, the first instance on record, of a carriage propelled by steam on dry land. If I am wrong, you, Mr. Editor, can set me right. If I am right, let justice be done to the memory of Oliver

The narative proceeds as follows:

"He then applied a paddle wheel in a temporary manner, and propelled it (the flat) down the Schuylkill and up the Delaware to the city, a distance of sixteen miles, leaving all the vessels that were under sail at least half way, (the wind being ahead,) in the pre-sence of thousands of spectators, which he supposed would convince them of the practicability of both steam carriages and steamboats. But in this he was sadly disappointed, for they made no allowance for the disproportion of the engine to its great load, nor for the temporary manner in which the machin ry was fixed, nor the great friction, ill form of the boat, and but supposed it was the utmost he could do."

I will give a few extracts from another part of this volume. They are introduced in the original in the

form of a prophesy.

"The time will come when people will travel in stages moved by steam engines, from one city to another, almost as fast as birds can fly, fifteen or twenty miles an hour.

"A carriage will set out from Washington in the morning, the passengers will breakfast at Baltimore, dine at Philadelphia, and sup

at New York, the same day.

"To accomplish this, two sets of railways will be laid, so nearly level as not to deviate more than two degrees from a horizontal line road to the Hudson. For the four following -made of wood or iron."

When, in the year 1813, these prophesies were uttered, the author must have been regarded by most of his contemporaries as a madman. It is needless to observe how nearly to the letter his prophesies have been fulfilled.

To the Americans, the world is indebted for the first steamboat. It was not the fault of Oliver Evans that the world is not indebted to the Americans for W. M. G. the first railroad also.

Washington City, D. C., Aug. 18, 1847. We are obliged to the writer of the foregoing communication, for this opportunity of reminding road, I have enjoyed an opportunity to test those, who now enjoy the reality of the predictions of the effects of a railroad on the farms and vil Oliver Evans, to whom they are so much indebted as one of the piencers in the great work of applying steam to navigation, not only on the water, but also on land.

### Vatertown, Rome and Cape Vincent

railroads, that we give it entire.

The road here referred to is designed to open a communication from Cape Vincent on the St. Lawrence, through Watertown, to Rome, there to connect with the line from Buffalo to Albany-and thus

The writer of this letter speaks from personal knowledge on most of the points—and his advice is so good, and so applicable to many other sections, up at every station, farms improving and fi that we should like it much better if we could put the Railroad Journal containing it into the hands of every property holder in the Unio

"The following letter," says the Northern State Journal, "is from a gentleman in Boston, of high standing and long experience in everything relating to the character and influence of railroads on the various interests of New England, and is in answer with the character and influence of railroads on the various interests of New England, and is in answer with the character and influence of railroads on the various interests of New England, and is in answer with the character and influence in everything relating in speed, cars, depois and frequent trains, in an arrived with the character and influence in everything relating in speed, cars, depois and frequent trains, depois and frequen to one from a gentleman of this place. The public are requested to give it a careful perusal. Its doctrines are sound, the authority is unquestionable, and it relates to a subject of vital interest to this country. Let us one and all arouse from our lethargy, and by one noble effect accomplish this great object. The God of Nature has bestowed his good gilts upon this country with a bountiful hand, and if we are just to ourselves this will soon become one of the most desirable portions of the Union."

DEAR SIR. Your favor of the 3d of August was duly received, and I hasten to answer the various questions it presents.

You ask me to state what connection I have had with railroads. Let me reply that, although a member of the legal profession, I have for the past twelve years been engaged in the direction of steamboats and railroads, and for seven years been closely connected with several of the most important enterprizes of the State.

Early in 1840 I was chosen director of the Western railroad, and appointed chairman of the committee which in that year visited Al-bany, secured the bonds of the city, and planned the extension of the Western railyears I was in the direction of that enterprize. while it struggled through the mountains of Berkshire. Subsequently I have been director of the Fitchburg and Montreal railroad, the first of which is in most successful operation, while the second is expected to be set in motion the present fall. Having taken an active part in conducting these enterprizes, owning a country seat between the Fitchburg and Worcester lines, over both of which I pass often in summer, and acting as counsel also in cases of nearly all our lines of rail-

lages of our State.

Although I feel a deep interest in the pro gress of my native State, and I trust a laud. ness at ore able pride in her rapid advancement, I trust in repair. that I do not forget that I am a citizen of the Union, and can permit no State lines to limit We have not heard much in relation to this railroad for many months past, but the following excellent letter, addressed to a gentleman in Watertown,
by a Businessa, in relation to this particular road,
and railroads in general, is so truth-like, and applies so well to many other localities, and proposed

Onton, and can permit no state mes to find
my philanthropy, or restrain me from communicating any light I have derived from
my position. You ask me if railroads are
monopolies. At first our lines were not conducted on the moit liberal spirit. Our early
plies so well to many other localities, and proposed
directors were timid, and the charges were

In Massachusetts we had three canals. fixed at four cents per mile for passengers, First the Middlesex, which your commission and eight cents for freight. I have ever been ers came to examine before they begun the

ket street, and round the circles where the open a communication direct with the "Black river perience at length prevailed. Four year water works are set," and onward into the country," lake Ontario and Canada. since our rates were reduced nearly one-hal and ever since an increasing prosperity ha attended all our lines. Villages are growin ing in value, and our lines are now conducted in a most accommodative spirit. If mo nopolies, they are most liberal monopolis for the tendency of rates is certainly diminished, and the accommodation of the public and land has risen from \$50 per acre to price varying from \$200 to \$1000 per acre. Fitchburg the population has risen in three years from 3000 to 6000 souls—the effect of he railroad alone. Milk is now carried 45 miles, from Leominster to Boston, and a train of five milk cars attached to the passenge. cars, arrives every morning at the Charlestown depot."

Under the influence of railroads, and of manufactures stimulated thereby, the old Bay State has ceased to be an emigrating State. It receives more than it sends forth, and will show by the next census nearly if not quite a million of inhabitants on 700 square miles of rugged land, smiling under the hand of untiring industry, and sparkling with new

You ask me to compare railroads with ca nals. Let me reply that the former are in almost every particular superior. Give me a good and untramelled line of railroad be side your Erie canal, and its branches, and successful as it now is, I think I would engage to divert its traffic in five years, and leave it without patronage sufficient to keep it in repair. In New York you have as yet enjoyed no perfect lines of railrouds. I cannot regard a line with a strap rail, nearly incompetent to carry freight, like that from Buffalo to Albany, as a railroad. Thank heaven we have none of them here. A tru railroad is susceptible of a speed of 40 miles per hour, and its capacity reaches to million of tons and millions of passengers to pass over it annually.

It can live, too, where a canal must perish for want of business. A railroad costing but \$18,000 per mile, can live upon a line which sustains but four daily stages, and ten daily baggage wagons in each direction, and pay large dividends; but a district with this business at ordinary tolls, would not keep a canal

A railroad surmounts summits inaccessible to a canal. It regards not the drought of summer or the ice of winter. By speed i

ers came to examine before they begun the and eight cents for freight. I have ever been ear came to examine a completely put down neficial to the lines and the public. For a worthless, for it has been completely put down long time I wrote and urged the point. I by the Lowell railroad built beside it. Sewas met at first by increculous smiles and cond the Blackstone. A railroad will this determined resistance, but argument and ex- this fall be opened on its banks, and all of

<sup>•</sup> The water works here alluded to were at the in-

may be offset, is nine-tenths of a cent per ton approaches on each side, all is progressing a mile, or fifty per cent. more. A line like steadily but slowly. The pites for the south-yours, with 200,000 tons could do a most re-ernmost river arch are so far completed, that nunerating business at less than two cents the foundation stone is expected to be laid per ton to a mile, but with 30,000 tons only during the week. The approaches on the must of course charge more to cover charges south side are rapidly advancing, most of the and interest on capital, say four cents per ton pilters for the arches are already erected.—

a mile. Two to two and one-half cents per Several of the metal pillers which form the mile pays well for passengers—better than higher charges.

You ask me if you should raise half the capital for your railroad, if you could borrow the residue here. If you move judiciously I think you may. I should begin at Rome and build 47 miles to the lake, as you suggest—thus make the first division productive. apital for your railroad, if you could borrow I think you could then borrow on 7 per cent. dom, Its massy towering piers are now all works which are to give character and wealth bonds enough to move onward and complete reared, and its lofty expansive arches, stretchthe line; but your lands would not sell until portion was finished. The rate of o

Meanwhile I remain yours very sincerely.

### HIGH LEVEL BRIDGE.

all of the canal will be abandoned - will be left for the alternate expansion and and other kinds of vegetable life, indigenious Third the Hampshire, from New Haven to contraction of the arch. The arch consists to the mountain soil. Northampton. A railroad is now in progress along its tow path. We have done with solid metal. The under roadway is suspended from these ribs by means of rods, which

The Coal and Irange.

The Coal and Irange. You ask me the cost of transportation on pass down the centre of the pillers-the uprailroads. It rises and falls with the quantity conveyed. When business rises to 200, time as supports for the upper roadway.—
000 tons a year, freight can be transported on There are also 14 transverse, and 8 longitua line like yours at a cost of six-tenths of a dinal girders, which bind the whole compact-cent per ton a mile, exclusive of loading and ly together—the balustrades are in keeping unloading. It has been moved for less— with the rest of the work. The arch was This charge would include the wear and detested by a weight of 500 tons being put upon it, being double the weight to which it can amphlet. on the Eric canal the average cost, inclusive of interest on boats and horses, but exclusive of conal repairs and attendance which is constant to which it can pamphlet.

It not of variant me weight to which it can pamphlet.

It not of variant me clusive of conal repairs and attendance which is constant to the weight to which it can pamphlet. clusive of canal repairs and attendance which spect to the other works on the river, and the

The avoidance of the canal toll and the honor is somewhat interested the control of the control On Fallay, one of the metal arches for this great undertaking was tested at Mesars Hawks, Crawshy & Co.'s works, in the presence of Robert Stephenson, Esq., and several other scientific gentlemen. The arch is constructed on the bowstring principle, and is constructed on the bowstring principle, and is 125 feet span. The ends will rest upon metal arches for the valley over which the monster riduct is thrown, is a beautiful and romantic little defile between two high rocky mountains, whose steep and rugged sides are coveral plates fixed in the pier, and a small space are with a profusion of heath, brushwood, the title of "The Philadelphia Contribution-

Pennsylvania the Pioneer in Internal Improvements.

The Coal and Iron Trade of Pennsylvania, in 1847. We have been favorded with a copy of a pamphlet with the above title, from the pen of C. G. CHILDS, Esq., the able editor of the Philadelphia Commercial List, which we have read with some care and a deep interest. We have never before read a work of 24 pages that contained as much useful informa-

It not only claims for Philadelphia, and Pennsylvania, the credit of being the pioneer in many important matters, but, what is still better, it shows the claim to be just-especially in relation to the commencement of internal improvements, in the way of turnpike roads, and canals, banks, railroads, iron manufacture, the coal trade, etc., etc., etc.,

The best evidence of the high estimation which we place on this production, will be found in the extent of our extracts and quotations from it-by permission, however, it being a copy right work. It should be read by every business man in the com-

The writer says of the " Coal Trade:"

The State of Pennsylvania has claims which thus make the first division productive. science in railway construction in the king-coveries and of pioneer operations in the great portion was finished.

The avoidance of the canal toll and the our readers who may be unacquainted with cheerfully accorded to the city of Boston, for

runs the line of the Leeds and Thirsk rail noticed as a characteristic of great discoverers, way which is carried along the mountain declared, that the time would come, when one side a considerable distance, and afterwards would "breakfust in New York, dine at Phi-

try, the bank of North America, was estab-

ship for insuring houses frem loss by fire," had already been established here in 1752. Here, in 1793, was organized the first Sabbath school in the country, by the efforts of Bishop White, Thomas P. Cope, and a few other prominent citizens—an honor now apother prominent citizens—an honor now apother states. If the importance of the coal trade is inshing. Anthracite coal was first used as other prominent citizens—an honor now apother prominen other prominent citizens—an honor now appreciated throughout the Union. The first counted one of its remarkable features. The supply then sent to market was 365 ton institution for the blind was that established in this city. The first medical college was opened here. The Academy of Fine Arts, instituted in 1806, was the first of the kind in this country. Philadelphia first showed in this country. Philadelphia first showed in this country. what might be done in supplying cities with writer, by her astonishing Fairmount Water Works. In her Eastern Penitentiary she furnished a model for institutions of that class which has been extensively approved and im. The bridges in the interior, by their number, the production of steam in manufacturing established. itated, both in this country and in Europe. Here too before the revolution, the great dis have done honor to the State. covery which has given us the magnetic tele-

SCALED, because there are no gorges through which roads can pass. Rapid and turbulent streams, which are frequently swollen by the rains and snows of the mountains, often carry destruction in their course. Yet the mountains have been scaled by our turnpike roads and substantial and costly bridges have been thrown over the thousand streams. In the extent and cost of her turnpikes, Pennsylvania has long been in advance of all her sister States. The turnpike from Philadelphia to

and their substantial and even bold charabter, tablishments, for propelling steamboate

Last, though not least, should be menttoned the fact known throughout the civilized financier. These two companies undertook the fact known throughout the civilized financier. These two companies undertook the work, and proceeded with it, when, after having expended \$440,000, they were embarrassed, and suspended operations, a number of the leading individuals having become bankrupt in this herculean effort. These beginnings, however, resulted at length in the cause surprize in many quarters, and place the character of our city and commonwealth in a most honorable position.

It is to be remembered that the surface of this State presents an obstacle to internal improvements, greater than is found in any other. Vast ranges of mountains are to be scaled at the surface of the cause there are no gorges through

Union; or, at least, was anticipated only by a short tram road at Quincy, Mass. From that period to the present, Philadelphia has been second to no city in the Union, in expenditures for constructing these wonderful charter to the burgesses, of Newcastle, to dig annihilators of time and space.

railroad locomotives, and more recently for For the introduction of canals, as well as the manufacture of iron, for which purpo covery which has given us the magnetic telegraph, led Franklin to give signals by electricity across the Schuylkill.

In such a review, it might be added that the merchants of Philadelphia had the patricity, to build a frigate, (the Philadelphia) and present it to the United States government, the only instance of the kind on record; and the State of Pennsylvania erected a house in Philadelphia, and of the lakes and the Ohio river with the Design of the lakes and the Ohio river with the Design of the lakes and the Ohio river with the Design of the lakes and the Ohio river with the Design of the lakes and the Ohio river with the Design of the lakes and the Ohio river with the Design of the lakes and the Ohio river with the Design of the lakes and the Ohio river with the Design of the lakes and the Ohio river with the Design of the lakes and the Ohio river with the Design of the lakes and the Ohio river with the Design of the lakes and the Ohio river with the Design of the lakes and the Ohio river with the Design of the lakes and the Ohio river with the Design of the lakes and the Ohio river with the Design of the lakes and the Ohio river with the Design of the lakes and the Ohio river with the Design of the lakes and the Ohio river with the Design of the lakes and the Ohio river with the Design of the March and the manufacture of iron, for which turnpikes, to the public attention, the country it is employed on an immense scale. In 1840, there were no anthracite furnaces in 1840, there were no anthracite fu the kind on record; and the State of Pennsylvania erected a house in Philadelphia, and offered it as a present to Washington. Here also, a stand was taken against the exactions of Great Britain, in advance of Boston her self. The first opposition to the landing of tea was made at a public meeting held in Philadelphia, December, 1773, some weeks before the celebrated tea party executed its work at Roston.

The first opposition to the landing of the land ork at Boston.

by the way of Norristown. At the head of on the shipments constwise from this port, of Last, though not least, should be mention the latter was Robert Morris, the celebrated more than a million of dollars. If this trade

> work.
>
> When the period of railroads arrived, at merely a nominal freight, instead of balpennsylvania was again the pioneer. The last, plaster, fish, lumber, salt, and other artirailroad at Mauch Chunk, constructed with cles required for consumption in the interior, Philadelphia capital, was the first in the which add materially to the resources of the

for coal; which is the first legal mention of States. The turnpike from Philadelphia to Lancaster, was the first undertaken in the Union, and was completed in 1794, at a cost of \$465,000. Subsequently, the whole surface of the State was traversed by these roads. But the day of turnpikes has passed away, and the famous Conestoga wagons, with their noble six horse teams, whose bells sounded along the mountain defiles, and warned the importance to coal and iron, how melancholy traveller of their approach, are to be reckoned would be the condition of her surviving con-

650	to have been to be	AM	IERICAN RAI	LROAD JOUR
Perhaps few persons have dis	tinetl	v consi	To these must be added th	e Delaware
dered the aggregate expenditu			and Hudson canal, 106	miles long,
provements designed to facility	ite the	e trans-	Morris canal, 109 miles	long con-
portation of coal from our vast			structed to carry coal to	New York,
Let us look at some definite stati	stical	account	cost	4,000,000
of these operations, of the training	eb.i	(10), 1914	Total as above	26,720,000
NAMES AND COST OF THE CANALS	AND E	AILROADS	Grand total	834,970,000
THE COAL MI	NES.	idusein a	Total length of canals, 41 Total railroads47	
redaidates organs in shorthagi	14	991 04991	AND THE RESERVE OF THE PARTY OF	employment to a very
LEMON COAL REGION.	-	Cost.	great number of persor	
The Lehigh Navigation-Ex-	<b>2</b> 700	LENG IN	the cost of the article	
tends from Easton to White	and the second	and America	In its locality it is wor	
Haven, 71 miles, and thence	อาการทำ	Control of	cents per ton; averagi	ng 35 cents per ton.—
to Stoddartsville, 16 miles-		using day	But in all the operation	
non 87	100	4,555,000	ning and transportation	, a vast amount of la-
Whitehaven and Wilkesbarre railroad—From Whitehaven	Helicin	drug of	bor is employed. We	
to Wilkesbarre with three in-	<b>P</b> and	Mark states	not only the miners, brakemen on the can	
Mauch Chunk railroad—From	nearl	1,350,000	the hands on board th	
Summit & Room Run mines			and the carmen at the	
to Manch Chunk and back	0.0	200 000	also the thousands em	ployed at some time, in
Beaver Meadow Road—From	36	600,000	making the necessary	
the Beaver Meadows to the	abuath	Gervain	the locomotives and s	tationary engines, the
landing on the Lehigh canal. Hazleton Railroad—To Lehigh	26	360,000	boats, etc., etc.	sted in providing ave
canal	10	190,000	nues for the coal trade	
Buck Mountain Railroad—To	bund	40,000	but the enhanced value	
Summit Railroad	2		perty which appears	
Total Lehigh Improvements 87	- 00	7 045 000	where once roamed the	e panther and the bear,
SCHUYLKILL REGION.	91 <b>30</b> 11	7,945,000	baffle all our attempts	
The Schuylkill Navigation—	914	57,148,679		the extent of the coal
Commences at Philadelphia,	J., Care.	A SALES	trade, and its importan us to ask whether this	
and terminates at Port Car- bon, [including cost for en-	(数4.5)	STATE OF THE PARTY	strong claim upon the	
larging to this time106		5,675,000	tion and encouragemen	nt. If not, how could
from Richmond to Mt. Car-	contrata	da seri ba	such a claim be conce	
bon, with a branch from the	CO-day 18	all shite	What operations can b	
Falls of Schuylkill to the Co- lumbia railroad at Peters Is-	10 7 d	in to	nected with the prim	e elements of national
land, including cost of loco-	andy	1109214	growth and power?	ety of withholding the
Little Schuylkill Railroad—Be-	93 1	1,000,000	protecting power of the	
tween Port Clinton and Tam-	MEST THIS	02,897.5		denies, altogether, the
aqua, cost \$990,000, and new	00	E00 000		ny restrictions on the
Mine Hill and Schuylkill Ha-	, wu	500,000	disheartened competit	ion of other nations,
ven Railroad—Cost \$430,000	95 bis			back our own enter-
-new rails, and 71 miles ex- tension to Swatara, \$120,000	25	550,000	prize for centuries?	ne Nova Scotia mines
Danville and Pottsville Rail-	risk res	ANTE EST	to the New England	
part in use	294	680 000	capital of the British	
Mount Carbon Railroad	7		(the present holders of	f the original grant to
Mount Carbon and Port Carbon Railroad	24	120,000	the Duke of York) and	
Schuylkill Valley Railroad	14	300,000	sess for bringing their	coal into this country,
Mill Creek Railroad	6	120,000	to the destruction of or	
Railroads constructed by indivi- duals, aggregate	70	180,000	half of this important	trade
Railroads under ground in the	01 207	THE SECTION AND THE	THE CHARLES STREET, ST	
unines	60	75,000		100 100 연하기 CHESCHEE NOT HOUSE
Total Schuylkill108	357 1	9,365,000		shows the imports of
OTHER PLACES.	A STATE	Jan Colo	to 1846, inclusive:	nited States, from 1820
Lykens Valley Railroad—To Susquehanna canal	16	900 000	1891	1834 71,626
Wisconisco Canal-To Mil-	T Salte	200	182334,523	1835 49,969
Swatara Railroad—To Union		70,000	1823	1836
Canal			182535,645	1838 129,083
Lorberry Railread	4		1826	1839 181,551
Total other places	24	310,000	182740,257 182832,302	1840 162,867 1841 155,394
RECAPITULATION	The state of the s	DE ESTA DE	1829	1842 141,526
Lehigh Improvements 87	98	7,015,000	1830	1843
Schuylkill	240 1	9,365,000	1832 72,978	1845 85,771

adoption of the federal constitution, a law was passed laying a duty of two cents per bushel on imported coal. (See pub. doc. page 72.) August 10th, 1790, the duty was increased three cents per bushel. Again on the 2d of May, 1792, the duty was increased to 44, and on the 7th of June, 1794, to 5 cents per bushel. This duty was continued under all the party changes, until April 27th, 1816, when the duty was changed to 5 cents per heaped bushel. In 1824, May 26th, after our coal had begun to be used, the duty on imported coal was increased to 6 cents per bushel, or \$1 50 per ton. Gen. Jackson, then a member of congress, voting in favor of this duty. In 1842, the duty on imported coal was raised to \$1 75 per ton; but even with this check to its importation, some supplies were brought in, as will be seen by a subsequent statement taken from official documents. By the present tariff, the duty is only about 45 cents per ton on board, and may be reduced to 35 cents.

It thus appears that Washington, Madison, Monroe, Adams and Jackson gave their high sanction to the protection of the coal interest—an interest of the importance of which even those tar reaching minds must have formed a very inadequate idea. Of the use of coal in the production of steam, it is not easy to say what suppositions and expectations it would be safe to pronounce extravagant. In an address lately delivered, Mr. Pierpont indulged in the following illustra-

tion:

"It required twenty thousand men twenty years to build one of the pyramids of Egypt. The same number of men might, by the aid of steam, accomplish as much work now in twenty-four hours. Cylindrical boilers are the seven league boots of the country."

In reference to the use of coal in the manufacture and working of iron, it is pertinent to quote the remarkable language of Mr. Lock, in his Essay on the Understanding, where he says—"Were the use of iron lost among us, we should, in a few ages, be unavoidably reduced to the wants and ignorance of the ancient savage Americans." And, whether we can fully subscribe to this sentiment or not, we cannot object to the beautiful declaration of the same philosopher, that he who first made use of iron, "may be truly styled the father of arts and the author of plenty."

Our large table shows the comparative quantity of anthracite coal sent to market from the different coal regions in Pennsylvania, from the commencement of the trade in 1820, to the close of the past year. Nearly all the above returns are official, being obtained by us from the different regions. It will be seen they vary in several cases from the reports of the Miners' Journal, the only paper beside our own that has pretended to keep up original yearly statements of this important trade.

98 7,045,000 1830 58,136 1843 41,163 Anthracite coal was first used as fuel (on 19,365,000 1831 36,509 1844 87,073 tide water,) in this country in 1820, when 1832 72,978 1845 85,771 the total supply sent to market was only 365 156,853 1846 156,853 1846 156,853 1846 1831 1846 1831 1846 185,000 1832 1846 1831 1846 185,000 185,000 1832 1846 185,000 18

periods of nine years each, it will be seen haps we may set down in round numbers—tors and shareholders the folly of that wit that the total supply from all the mines in not by any means being desirous to exagger-sale creation of branches and amalgament the first period, ending with the close of 1828, ate—£200,000,000, as the amount of future and leases which bid fair to reduce divide 239.845 tons. calls. Second period ending 1837, 3,829,829 Third period ending 1846, 11,549,061

Showing the annual average receipts for the first nine years to have been 26 648 tons. Second period, 454,534 "

Third period, . . 1,283,229 "
From which it appears that the quantity consumed during the last nine years was answer for the consequences. nearly three times as large as during the preceding eighteen years.

To be continued

#### PROGRESS OF THE RAILWAY SYSTEM IN ENGLAND.

Herapath, in his Journal of 17th July, says that "Our last paper (p. 777) will have announced to parties interested in railways, that up to yesterday week, July 9th, 136 railway bills received the royal assent, authorizing the construction of 1,141 miles of railway, and requiring a capital, including iton, of about £26,000,000.

But there were presented in this session of parliament 320 bills; and, up to yesterday week, only about 60 of them have been withdrawn or otherwise thrown out; leaving 260. Consequently, deducting from these 260 the 136 which have already received the royal assent, and we have 124 bills still before parliament, many of which are in an advanced stage towards completion. It is probable that the majority of the 124 will be passed. It all, or nearly all, be passed, we shall then have another batch brought into existence about equal to the lot which have just been fully shoctioned — say about £24,000,000 more, making (with the £26,000,000) the the sum of £50,000,000 for railways passed in this session.

If we take the cost of the railways established prior to 1844, as £80,000,000, we shall not be wide of the mark. Then, in the seseion of 1844, there were sanctioned railways to the extent of-(in all cases including loans as part of capital)-£16,000,000. In 1845, as much as £58,000,000 worth were passed, In last session, 1846, there were about £120,-000,000 sanctioned. Adding to these totals, £28,000,000 for the lines just sanctioned, and £28,000,000 for the lines just sanctioned, and we find the total capital for railways made, being made, and authorized to be made, blished companies. Most of them, we will being made, and authorized to be made, blished companies. Most of them, we will amounts to £300,000,000. To this we might be bound to say, are next to useless, and will also add the £24,000,000, which we expect only tend to dilute the profits of companies will be further sanctioned before the close of which are now paying good dividends.—
the present session, making £320,000,000. Shareholders have it, therefore, in their own will be further sanctioned before the close of But we have certainly, within a fraction, hands, to prevent the enormous expenditure £300,000,000, as the capital of the old and for such lines. They can come to resoluauthorized new lines.

new lines. Only £80,000,000 of it are for gagements of having to pay calls for years old lines. Say that £30,000,000 have alrea- to come at the rate of more than a million a dy been paid on calls, on account of the new lines. There will, therefore, be £110,000, tion of their present dividends.

000 to be taken from £300,000,000, leaving We have long urged upon £190,000,000 yet to be subscribed for the new sanctioned in this session, there will be £240, calls, rendering the above, 'Frank Marvel' has sent us some corrections or additions to the table of calls, rendering the amount for this month £5,332,-725.

If shareholders subscribe £50,000,000 a year in calls, there must be four years consumed in constantly paying up, at this rate, before they (the shareholders or the public) will be released from their liabilities. But which some of the railway companies have, in their wisdom, armed themselves with power to make, that the payment of the two hundred millions will be spread over a period of more than four years, and thus reduce the subscription in calls to something less than fifty millions a year, or about a million week.

The sample of management, however, which we now have before us in the table of calls, compiled for us by our correspondent, Frank Marvel,' is not at all encouraging. Frank Marvel' shows that the amount of calls for this month (July) is £5,227,725;— or more than a million and a quarter per week, !!!\*

We may observe, passingly, that the table which our correspondent furnishes is as accurate as great labor and unusual means for if there is any error, it is that of omission—the real amount must be larger, not less than £5,227,725.

We have no wish to frighten or alarm shareholders, but we really think the above more attention to their affairs than it is the fashion to do.

The proverb is, 'It seldom rains but it poura.' Unfortunately at this moment France is in want of a loan of £12,000,000.

for such lines. They can come to resolu-tions requiring their directors to suspend the Of this £300,000,000, by far the major part construction of them, by which they will not has to be called up for the construction of the only save themselves from the rainous enweek, but will prevent the threatened reduc-

We have long urged upon railway direc-

to little, and something beautifully less. Ou This result is certainly serious, and demands the deepest attention of all engaged, or interested in railways. With good management, the enormity of such a liability branch after line has been created branch after branch has been projected, and broad. Line after line has been created branch after branch has been projected, and branch after branch has been disregarded. A spirit but little better than madness has been abroad. Line after line has been created branch after branch as been projected, and branch after b stead of tagging to the concerns schemes which must inevitably reduce their value and their dividends. It is now reported that one of our But cent, for the half year at the next meeting. it is to be hoped that such arrangements will Unless the pruning knife be vigorously ap-be made, principally by the present abandon-ment of a host of almost useless branches, not at all be surprized to see some of our 10 per cent. lines gradually drop to five and others to less. Shareholders run away with the notion that they can have the premiums and dividends too. They cannot or will not understand, that every addition paying less than 10 per cent. or less than the parent line, must necessarily reduce their annual income. No, a line paying 10 per cent., they imagine will, by a sort of magic, make everything added to it pay the same dividend, and, therefore, will not reduce the dividend of the old line. A very few years, we expect, will teach them better, and open their eyes to the improvidence they have committed in their unrestrained creation of capital.

Many of the branches and extensions, we admit, are not of the several companies seek ing, but are forced upon them by circumstances. A restless neighbor thrusts out a branch obtaining such information can make it; and into their dominions, and to save themselves, they are obliged to project another, or perhaps two, without any regard to cost or re-turns. As, however, it will not do to tell the shareholders this, the projectors of these branches so contrive to mystify the case with facts demand that they should pay a little figures and assurance, as to make the barren projects appear to be excellent acquisitions A high premium, or one proportional to that of the parent company is asked and obtained for the new shares, and the fortunate sellers go their way rejoicing, not dreaming that the very premium, if not more, which they have pocketed for the branch, mast, ere long, be taken out of the share price of the old line.

In the majority of cases, however, these branches are not even forced upon the com panies by external circumstances, but are the creations of the engineers or solicitors of the companies, or perhaps of both together, or are the creations of a designing, unscrupulous man of influence in the company, who has some interest to serve. Cases have not been wanting where land or an estate has been bought first, and a branch or an exten sion projected afterwards. There was one instance in which land of the value of £300 was charged to the company by one of the directors, and paid for at £30,000. Nor is this a solitary instance; others equally as fagrant can be adduced; but we hope and believe they are not very common occurrences. Branches, though not unfrequently the creashape. Any stoker will then be able to feed pring of cupidity in certain officials. But it, and we have no doubt that Mr. Crampton will, with such an alteration, be able to show a low will to have none, or as few as possible of them made. The large amount of capital to be called up, for really necessary schemes, will be sufficient to tighten, if not cripple, the money market, and consequently to depreciate very materially the price of railway stock, without the burthen of unprofitable and useless branches, But the new creations in the present year, consist almost entirely of branches and need less extensions. Shareholders, therefore, should insist on their postponement. If they do not, they must expect, ere another year of operations—the Dartmoor Consols Mining do not, they must expect, ere another year pass over their head, to see their most valua-ble property reduced some 50 per cent.

We give these remarks entire, as they reprove, with great freedom, the present doubtful policy—in he estimation of many-of numerous branches to he principal main lines of railroad in England. We like the freedom with which the editor of this ournal often comments upon the policy of some of

the companies.

#### CRAMPTON'S LOCOMOTIVES.

The London Morning Herald of July 22d ays that "the 8-feet driving wheel engine, (Crampton's) on the working of which great expectations were formed by the narrow gauge party, and the details of a very good performance of which we gave a short time since, has been singularly unfortunate upon ductile metals—such as tin, copper, lead, etc. the London and North Western line. Al- We cannot, therefore, speak too highly of the though admirably balanced upon her wheels, liberality of the directors of the Dartmoor and of excellent workmanship, hot axles have been a common occurrence with this engine. to show the results in the very heart of the She got her buffer beam broken, and her axie boxes injured, by most culpable negligence on the part of a driver of a pilot engine.—
She was sent with instructions, for slight repairs, into the shed, where the shed to show the results in the very heart of the mote its general adoption, both on railways and common roads; and, in order to show the perfect control under which this prodigito show the results in the very heart of the mote its general adoption, both on railways and common roads; and, in order to show the perfect control under which this prodigito show the results in the very heart of the mote its general adoption, both on railways and common roads; and, in order to show the perfect control under which this prodigito show the results in the very heart of the mote its general adoption, both on railways and common roads; and, in order to show the perfect control under which the perfect control under which the perfect control under which the perfect control under the perfect co She was sent with instructions, for slight repairs, into the shed, where she remained much too long a period, considering the important influence her working was likely to have on the question of the gauges. Again, if we are not mistaken, we have ourselves seen several different men driving and stoking This change of men is certainly most injudi cious with a locomotive having a fire box of a novel construction, and difficult to feed .firing and working such an engine is not to be ascertained either the first or second trip. The engine took a couple of trips yesterday, on the London and North Western line, with ordinary trains, prior to her being taken into the shed to be thoroughly inspected. We rode down the line with her, and, although we think her fire box defective, an evil which can be remedied, we are confirmed in the soundness of the favorable opinion we for:

The fire box when carriage freight etc. as now practiced, thus of prefection as now the state in the same state in which it was the shed to be thoroughly inspected. We will be carried on at a much less cost; and test on the 8th inst., and reduced only in its original force by the amount of air dischargement of the favorable opinion we for:

The fire box when carriage freight etc. as now practiced, thus of prefection as now the size in the same state in which it was the same state in the same state in which it was the same state in the same state in which it was the sam merly expressed of her. The fire box when well fed does not afford her all the steam necessary for high velocities with heavy loads. It was pointed out at the time that the remepanies, the patentee is adding three feet to the present 14 feet bearings. This addition will expitalist, for the exclusive right of using his but in a state always fit for instant use; stored enable him to make his fire box of the old patent in the two counties of Devon and Corn-

of operations—the Dartmoor Consols Mining Company having, for a limited period, placed the smeling house, situate on their mine, at the disposal of the patentee. We have al ready made mention of this highly important discovery in a former number, and we con- let off, as wanted, in quantities proportionate gratulate the mining interest on the principle to the work performed. We noticed, further, being so near development; and should the that there was a common road locomotive in result of the experiment be favorable, which the course of building at the work shops of we predict it will be, there can be no doubt it the college, which was intended to be worked will give an impetus to the trade, and a new era will be arrived at in the art of smelting

We understand the experiments hitherto made, have been on the harder metals—such which we are indebted to an eye witness: as iron and steel—and which have been highly satisfactory. The object of the present experiments at Dartmoor is, to prove the great superiority of the electric process on the more business being in the hands of a few very rich individuals, there is not that fair compevast magnitude.

To obviate this great evil, which weighs heavily upon those who have a vested inter-

We are given to understand, upon uuthe pleasure of witnessing at the College
doubted authority, that arrangements have
been entered into for the purpose of fully testing the process lately patented by Mr. A.
Baron Von Rathen's new plan (patented, but
Wall, for refining and smelting over hy elecstill unspecified) of working locomotives by compressed air. We stated that we had seen on that occasion air compressed to upwards of 850 pounds per square inch, and this enormous power was set free again with the greatest facility for locomotive purposes—that is to say, not all applied at once, but " set free" or the college, which was intended to be worked on this plan. Since then some additional experiments have been exhibited by Baron Von Rathen; for the following particulars of

On the 8th inst., the compressed air reservoir was again charged to upwards of 800 pounds per square inch, in the presence of a number of gentlemen, who have associated to make trial of Baron Von Rathen' system; and if that trial prove successful, of which there now seems every probability, to procannon. Another point which remained to be practically demonstrated, was the length the engine in the few trips that she has taken, tition that there should be in a trade of such of time which the reservoir was capable of retaining a body of air under so high a state of compression; and in that respect also the result was in the highest degree satisfactory. Practical people know that the best mode of est in mines, as well as on the miner who Four days after the experiment just described carriage, freight, etc., as now practised—thus of perfection as ever—the air issuing with enabling the industrious miner, and the capi apparently undiminised elasticity from its tals who invests in mines, to divide a hand-state of confinement, and with a noise that It was pointed out at the time that the remedy was to be found in excellent bearings;—
the monopolist; and many mines that are heavy artillery. Of no other motive power and we learn that in the new engines of this worked at a loss, will return dividends to the class that have been ordered by various comes that a large offer like this, of being stored up in any quantity, stationary, or carried about from place to ed the confidence of railway proprietors and jecture. We understand Messas Smith have place. Of no other known power either can the public, but for the Wolverton accident, have commenced active operations to have in the said with so much truth, that it is un which, in my opinion, may be traced to this rebuilt this season on the same signature was limited in its souace, and free from every-thing like nuisance in its application.—Mech. Magazine

From the London Mining Journal. THE AMERICAN STEAMER " WASHINGTON." Kymer and Leighton's Fire Bars.

Sir: I have just read in the Mining Journal of 17th July, a short account of the return of the American steam ship Washington to Southampton, after destroying two sets of are easily accounted for; or should the meis, we believe the stoutest rope of the king
fire bars, which you state "a committee of mory fail for an instant in its power of assothat was ever made. It weighs 20 tons 5 cw the passengers attributed to the bad quality of the conls—a species of anthracite much resembling the American." I beg to make a short comment upon this. The destruction of the grate bars was owing to the superior quality and strength of Welsh anthracite coal part of the watchman, which movement has over the American; the latter contains a very too often been of a wrong kind, although not large proportion of ash, or earthy matter, always attended with such serious results as which protects the grate bars from the joint the case referred to. What I would suggest action of carbon and the blast. There is but one vein, or seam, of anthracite in Wales which can be used with a blast and common grate bars; this contains about 20 per cent. of ash—that is, earthy impurity. The generality of Welsh anthracite will not average more than four per cent. I enclose you a circular, consisting, for the most part, of extracts from your valuable Journal, in which ciple I recommend to be adopted for the sig-you will find the analysis of some coal con-nal lights at the different stations. It would you will find the analysis of some coal containing only 1:18 of impurity in 100 parts. With such coal as this, I have run a set of bars together in less than two hours; this was owing to the strength of the fuel, not to would determine the movements of the different parties immediately concerned in the fuel as this might be applied to steam navigation, by the use of a fan blast, I contrived if adopted, would at once relieve the minds a grate having a trough of water under each fire bar. As I have so repeatedly brought this matter before your reuders, I refrain from further comment, than merely to state my decided opinion with respect to the Washington steamer. I know nothing of her qualities as a sea boat, but, cateris paribus, for a greater variety of signals than the present system can admit of.

Had the Washington gone to sea, fitted with Kymer and Leightou's grate, using the Garnat pig vein coal (some of which I believe was shipped at Lianelly for her use) and an ample blast, no steamer on the ocean would have kept up with her. Athough wearied of Thursday last, the bridge in the course of out, and disgusted by the neglect and apathy with which the anthracite coal owners have always treated this plan, I cannot resist the impulse of placing the merits of the case in a true light. T. H. LEIGHTON. Llandebie, near Llandilo, July 18.

From the London Mining Journal.

IMPROVEMENT IN SIGNALS FOR RAILWAYS.

Western railway, my attention was directed of the accident is not properly ascertained.—
to the principle of signalizing generally adopted on railways—the use of different colored flags by day, and different colored flags by day, and different colored structed entirely of whinstone, was a double one; both arches were finished, and they lights or lamps by night. This principle, so were putting on the balancing. Some attributed the accident to the haunches or outer and might for some time at least have retain-ends being overloaded, but this is mere con-

which, in my opinion, may be traced to this very objectionable mode of signalizing. It is a well known fact, that many individuals have not the power of distinguishing colors at all; and that, where this defect of vision does not exist, any sudden transition of the eye from one color to another, occasions coneye from one color to another, occasions con-fusion and indistinctness in determining the converted into wire. The wire was brough color presented to the eye. If these statements are correct, then I think that the confusion and consequent fatal blunder of Fossey.

there twisted into a line 4660 yards long. ciating a certain colored light with a particu- and will cost the purchasers upwards of £1 lar train, there is nothing tangible left to resort to for its correction. The approaching train leaving but little time for reflection, necessitates a movement of some kind on the is, that each lamp used as a signal, should take the form of a letter, which letter should be significant of the character of the train to which it is attached—for instance, a lamp in the form of a P should be placed on a pas-senger train, and one of the form of an L for a luggage train, and so on in respect to the other descriptions of trains. The same printhen be immaterial what color of light is used, as the recognition of a letter, either on of all connected with the movements of the trains from all embarrassment, arising from defective memory, or disordered vision, as the appearance of a letter, the initial of the thing signified, would be at once tangible to the most obtuse understanding, and give scope

inve kept up with her. Although wearied of Thursday last, the bridge in the course of erection over the Tweed at Ashysteel, fell with a tremendous crash into the water. The with a tremendous crash into the water. ruins of it now lie like a vast dam across the Tweed, with only a narrow outlet in the mid-dle, through which the water passes. The whole wooden framework supporting the arch was literally smashed to pieces. No individual saw the bridge full, the workmen having all left a short time before. Mr. J. Sin: Shortly after the very serious accident Smith, one of the architects, had just examin-Wolverton; on the London and North ed it, and seen nothing wrong. The cause Smith, one of the architects, had just examin-

134. It is intended for the incline on Edinburg and Glasgow railway, near the ter city. A rope of hemp, of rqual streng would weigh 321 tons, and cost about E more. It would also entail greater expension, (owing to its green weight) and sooner wear out.—Gatesh Observer.

TO CONTRACTORS.—KENNEBEC AND PORTLAND RAILROAD. Proposition will be received at this office, and at the office of the Resident Engineer, in Gardiner, until the 21st of Argust, for the Grading and Masonry of 21 miles of this road, extending from Bowdoinham to Augusta. The line of road and the place and profiles will

The line of road and the place and profiles will be ready for examination on the 12th of August, after which time any information in relation to the work can be had at the engineer's office in Bruns wick and Gardiner, or of the resident engineer of the line of the road.

Persons unknown to the officers of the company must accompany their bids with satisfactory evidence of their ability to complete the work.

The remainder of the line from North Yarmouth to the depot of the Portland, Saco and Portsmooth Railroad in Portland, 15 miles, will be ready for contract on the 18th of September, of which due no tice will be given.

GEORGE S. GREENE.

Engineer K. & P. R. R.

Engineer K. &. P. R. R. Brunswick, July, 12, 1847.

NOTICE TO CONTRACTORS—GREAT WESTERN RAILWAY, CANADA WEST Sealed proposals will be received until the 1st da of next October, at the Office of the Great Wester of next October, at the Office of the Great Western Railway Company, for the Grading and Mason of the Western Division, extending from Londo to Windorer, a distance of one hundred and miles; also for the branch to Port Sarnia, forty-fiv miles in length.

Plans and Specifications of the work can be examined at the Engineers' Office, in Hamilton and Loudon, on and after the 15th of September.

C. B. STUART, Engineer.

Hamilton, July 30, 1847.

Tamtion, May 30, 1841

O COMOTIVE AND CAR AXLES

AT The Subscribers are now prepared to receive orders for the well known and approved Reading Locomotive und Car Ardes—drawn to any require pattern from Bloom Iron only. Address

SAM'L KIMBER & CO., Willow Street Wharf, Phi.adelphia, Pa.

THE SUBSCRIBER IS PREPARED L execute at the Trenton fron Works, orders to Railroad Iron of any required pattern, and warranged equal in every respect in point of quality to the best American or imported Rails. Also on har and made to order, Bar Iron, Braziers' and Williams of the content of the state of

PETER COOPER 17 Burlin

BACK VOLUMES OF THE RAILROAD JOURNAL for sale at the office, No. 105

DAY, CROSKY & ROSS, COMMISSION MERCHANTS, 57 THREADNEEDLE STREET, LONDON.

13 ORCHARD PLACE, SOUTHAMPTON.
SHIPPING & COMMISSION AGENTS

SSENGERS, SPECIE, GOODS, PARCELS, etc.

To all parts of the United States, North and onth America, West Indies, India, [overland or parwise,] Constantinople, Egypt, the Mediterrane, the Peninsula, and all parts of France—via

ents at Cowes for the Ocean Steam Navigation

Persons wishing to transact business with lease. D. C. & R., will please apply to the subscrir, who will make cash advances on consignments their address.

their address.

July 31—3m ROBERT GRACIE.

TO RAILROAD COMPANIES AND BUILD-ERS OF MARINE AND LOCOMOTIVE IGINES AND BOILERS.

PASCAL IRON WORKS.

### WELDED WROUGHT IRON TUBES

m 4 inches to 4 fa calibre and 2 to 12 feet lon able of sustaining pressure from 400 to 2500 th square inch, with 8top Cocks, T. L., an of fatures to sait, fitting together, with scre-ts, suitable for STEAM, WATER, GAS, and for



Manufactured and for sale by IRIS, TASKER & MORRIS. se S. E. Corner of Third & Walnut Street PHILADELPHIA.

AP-WELDED WROUGHT IRON TUBES for Tubular Boilers, from 14 to 15 inches diameter, and any length not exceeding 17 feet-manfactured by the Caledonian Tube Company, Glasgow, and for sale by

IRVING VAN WART, 12 Platt street, New York. JOR CUTLER, Patentee.

These Tubes are extensively used by the British Government, and by the principal Engineers and Steam Marine and Railway Companies in the King-

PRING STEEL FOR LOCOMOTIVES,
Tenders and Cars. The Subscriber is engagep
in manufacturing Spring Steel from 14 to 6 inches
in width, and of any thickness required: large quantities are yearly furnished for railroad purposes, and
wherever used, its quality has been approved of,
The establishment being large, can execute orders
with great promptitude, at reasonable prices, and the
quality warranted. Address
JOAN F. WINSLOW, Agent,
ly
Albany Iron and Nail Works,

PATENT RAILROAD, SHIP AND BOAT Spikes. The Troy Iron and Nail Factory keeps constantly for sale a very extensive assortment of Wrought Spikes and Nails, from 3 to 10 inches, manufactured by the subscriber's Patent Machinery, which after five years' successful operation, and now timost universal use in the United States (as well as England, where the subscriber obtained a patent) tre found superior to any ever offered in market.

Railroad companies may be supplied with Spikes naving countersink heads suitable to holes in iron cails, to any amount and on short notice. Almost all the railroads now in progress in the United States are fastened with Spikes made at the above named factory—for which purpose they are found invaluable, as their adhesion is more than double any common spikes made by the hammer.

All orders directed to the Agent, Troy, N. York will be punctually attended to.

HENRY BURDEN, Agent.

Spikes are kept for sale, at Factory Prices, by I.

Spikes are kept for sale, at Factory Prices, by I. & J. Townsend, Albany, and the principal Iron merchants in Albany and Troy; J. I. Brower, 222 Water St., New York; A. M. Jones, Philadelphia; T. Janviers, Baltimore; Degrand & Smith, Buston.

\*\* Railroad Companies would do well to forward the rorders as early as practicable, as the subscriber is desirous of extending the manufcturing so as to keep pace with the daily increasing demand.

MANUFACTURE OF PATENT WIRE Rope and Cables for Inclined Planes, Standing Ship Rigging, Mines, Cranes, Tillers etc., by JOHN A. ROEBLING, Civil Engineer, Pittsburgh, Pa.

These Ropes are in successful operation on the planes of the Portage Railroad in Pennsylvania, on the Public Slips, on Ferries and in Mines. The first rope put upon Plane No. 3, Portage Railrord, has sow run 4 seasons, and is still in good condi-

PATENT HAMMERED RAILROAD, SHIP and Boat Spikes. The Albany Iron and Nail Works have always on hand, of their own manufacture, a large assortment of Railroad, Ship and Boat Spikes, from 2 to 12 inches in length, and of any form of head. From the excellence of the material always used in their manufacture, and their very general use for railroads and other purposes in this country, the manufacturers have no hesitation in warranting them fully equal to the best spikes in market, both as to quality and appearance. All orders addressed to the subscriber at the works, will be promptly executed. JOHN F. WINSLOW, Agent.

Albany Iron and Nail Works, Troy, N. Y. The above spikes may be had at factory prices, of Erastus Corning & Co., Albany; Hart & Merritt, New York; J. H. Whitney, do.; E. J. Kuing, Philadelphia; Wm. E. Coffin & Co. Boston. ja45

MACHINE WORKS OF ROGERS, Ketchum & Grosvenor, Patierson, N. J. The undersigned receive orders for the following articles, manufactured by them of the most superior descrip-tion in every particular. Their works being exten-sive and the number of hands employed being large,

sive and the number of hands employed beinglarge, they are enabled to execute both large and small orders with promptness and despatch.

Railroad Work.

Locomotive steam engines and tenders; Driving and other locomotive wheels, axles, springs & flange tires; car wheels of cast iron, irom a variety of patterns, and chills; car wheels of cast iron with wrought tires; axles of best American refined iron; springs; boxes and boits for cars.

Cotton, Wool and Flax Machinery of all descriptions and of the most improved natterns.

cetc., by neer, h, Pa.

Cotton, Wool and Flax Machinery of all descriptions and of the most improved patterns, style and workmanship.

Mill gearing and Millwright work generally; hydraulic and other presses; press screws; callenders; lathes and tools of all kinds; iron and brass castings of all descriptions.

ROGERS, KETCHUM & GROSVENOR, 2019 by Paterson, N. J., or 60 Wall street, N. York.

### FRENCH AND BAIRD'S PATENT SPARK ARRESTER.

THOSE INTERESTED IN Railroads, Railroad Director and Managers are respectfully invi-ted to examine an improved Spark-Arrester recently patented by the un-

Tenders and Cars. The Subscriber is engaged in manufacturing Spring Steel from 14 to 6 inches in width, and of any thickness required: large quantities are yearly furnished for railroad purposes, and sparks passing through the chimney, and by the centrity and the subscriber is engaged in width, and of any thickness required: large quantities are yearly furnished for railroad purposes, and the wind sparks passing through the chimney; and by the centrity and the subscriber is exparated from the smoke and sparks passing through the chimney; and by the centrity of the firm of the smoke and steam, and thrown into an outer chamber of the chimney; the subscriber is exparated from the smoke and steam, and thrown into an outer chamber of the chimney; through a capacious and unobstructes with great promptitude, at reasonable prices, and the quality warranted. Address

JOAN F WINSLOW, Agest,

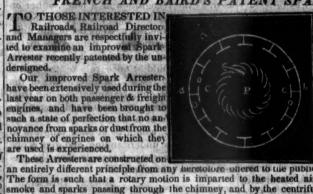
A blany Iron and Nail Werks,

A blany Iron and Nail Werks,

A county of the chimney; through a capacious and unobstructes with great prices and the top of the chimney; through a capacious and unobstructes with great power of the capacious and unobstructes.

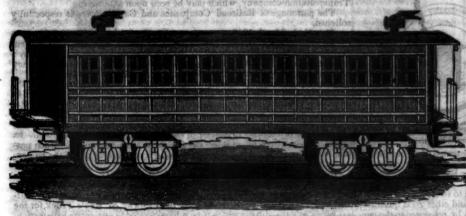
JOAN F WINSLOW, Agest,

A blany Iron and Nail Werks,





### DAVENPORT & CAR WORKS, CAMBRIDGEPORT,

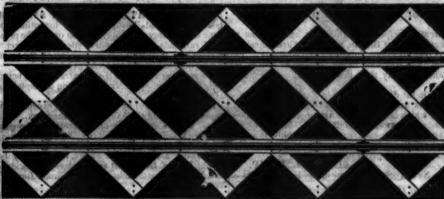


Manufacture to Order, Passenger and Freight Cars of every description, and of the most improved pattern; also furnish Snow Ploughs and Chilled Wheels of any pattern and size. Forged Axies, Springs, Boxes and Bolts for Cars at the lowest prices.

All orders punctually executed and forwarded to any part of the country.

Our Works are within fifteen minutes ride from State street, Boston—Omnibuses pass every fifteen

#### THE HERRON RAILWAY TRACK,



As seen stripped of the top ballasting

A GOLD MEDAL AWARDED THE INVENTOR BY THE AMERICAN INSTITUTE.

THE UNDERSIGNED RESPECTFUL—

It invites the attention of Engineers, and Railroad Companies, to some highly important improvements he has recently made in the Herron system of
Railway structure. These improvements enable
and 15 inches wire, is introduced into a square of
the trellis for the purpose of giving an additional,
and effectual support to the joints of the Rails,
which rest upon it. Should these joint blocks beding the strength of the Track, or its powers of resisting frost, while they secure additional features of
roads, they can be readily replaced without any derangement of the timbers less liable to wear.

The following is a general estimate of its cost near.

The above cut represents the "Herron Track" as it is laid on the Philadelphia and Reading, and on the Baltimore and Susquehanna Railroads. The intersection of the sills of the trellis are 5 feet from

The above cut represent it is laid on the Philadelphia and Realizoads. The intersection of the sills of the trellis are 5 feet from centre to centre, while in the new construction they are only 2½ feet. This renders the string piece unnecessary, thus removing the only objectionable feature found in the Track.

The result of experience has proved that all Tracks constructed with longitudinal timbers, such as mud sills, and more especially, the continuous bearing string pieces retain the rain water that falls between the Rails, which, being thus confined, settles along those timbers, and accumulating in quantity flows rapidly along them on the descending grades, washing out the earth from under the timber, and frequently causing large breaches in the embankments of the road. Whereas all water intercepted by the oblique sills of the trellis, is discharged immediately into the side ditches.

In the 5 foot plan, the Track occupies a Road bed In the 5 foot plan, the Track occupies a Road bed In the 5 foot plan, the Track occupies a Road bed In the 5 foot plan, the Track occupies a Road bed In the 5 foot plan, the Track occupies a Road bed In the 5 foot plan, the Track occupies a Road bed In the 5 foot plan, the Track occupies a Road bed In the 5 foot plan, the Track occupies a Road bed In the 5 foot plan, the Track occupies a Road bed In the 5 foot plan, the Track occupies a Road bed In the 5 foot plan, the Track occupies a Road bed In the 5 foot plan, the Track occupies a Road bed In the 5 foot plan, the Track occupies a Road bed In the 5 foot plan, the Track occupies a Road bed In the 5 foot plan, the Track occupies a Road bed In the 5 foot plan, the Track occupies a Road bed In the 5 foot plan, the Track occupies a Road bed In the 5 foot plan, the Track occupies a Road bed In the 5 foot plan the plan the first from the side ditches.

In the 5 foot plan the plan the first from the side for the plan the first from the first from the side for the plan the first from the first from the first from the first from the fi

The following is a general estimate of its cost near e seaboard. In the interior it will be considerably

### LAP-WELD LD WROUGHT IRON TUBES

TUBULAR BOILERS. FROM 1 1-4 TO 6 INCHES DIAMETER,

and

ant hungry, not excessing 17 rest.

These Tubes are of the same quality and manufacture as those so extensively used in England Scotland, France and Germany, for Locomotive Marine and other Steam Engine Boilers

THOMAS PROSSER

28 Platt street, New York.

#### RAILROAD IRON. MOUNT SAVAGE IRON WOR

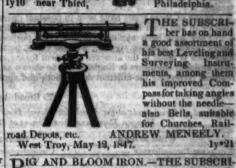
THIS Company are prepared to execute for Rational Iron, of any pattern, and in point of quality to any other manufacture Address J. M. HOWE.

Pres't. Mt. Savage Iron Warr

NGINEERS' AND SURVEYE INSTRUMENTS MADE BY EDMUND DRAPER, STANCLIFFE & DRAPER.

No 23 Pear street ly 10 near Third,

below Walnut, Philadelphia.



PIG AND BLOOM IRON.—THE SUBSCRI Dig AND BLOOM IRON.—THE SUBSCRIbers are agents for the sale of numerous brands of Charcoal and Anthracite Pig Iron, suitable for Machinery, Railroad Wheels, Chains, Hollowware, etc. Also several brands of the best Puddling Iron, Juniatta Blooms suitable for Wire, Boiler Plate, Axe Iron, Shovels, etc. The attention of those engaged in the manufacture of Iron is solicited by

A. WRIGHT & NEPHEW,

12tf Vine St. Whasf, Philadelphia.

RAILROAD IRON.— THE "MONTOUT to execute orders for the heavy Rail Bars of an pattern now in use, in this country or in Europe and equal in every respect in point of quality. Apply to MURDOCK, LEAVITT & CO.,

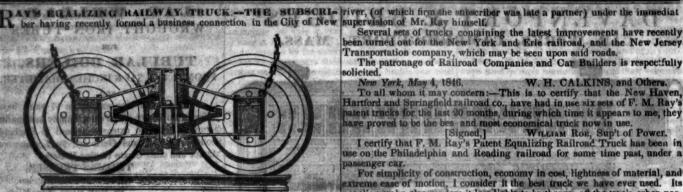
77 Pine St., New York

AWRENCE'S ROSENDALE HYDRA ulic Cement. This cement is warranted equato any manufactured in this country, and has bee pronounced superior to Francis' "Roman." It value tor Aqueducts, Locks, Bridges, Flooms an all Masonry exposed to dampnes, is well known as it sets immediately under water, and increases in the statement of the s solidity for years.

For sale in lots to suit purchasers, in tight pape of barrels, by JOHN W. LAWRENCE,

149 Front street, New York.

To Orders for the above will be received at promptly attended to at this office.



York, expressly for the manufacture of the newly patented and highly approved Railroad Truck of Mr. Fowler M. Ray, is ready to receive orders for building the same, from Railroad Companies and Car Builders in the United

States, and elsewhere.

The above Truck has now been in use from one to two years on several roads a sufficient length of time to test its annability, and other good qualities, raind to satisfy those who have used it, as may be seen by reference to the certificates which follow this notice.

There have been several improvements lately introduced upon the Truck, to the new additional springs in the bolser of passenger cars, making them delightful riding ears—adapting it to tenders, trucks forward of the locomotive, and freight ears, which, with its original good qualities, make it in all respects the most desirable truck now offered to the public.

Orders for the above, will, for the present, be executed at the New York Screw Mill, corner 33d street and 3d avenue, (late P. Cooper's rolling mills) and at the Steam Engine Shop of T. F. Secon's Co., foot of 9th street, East

Solicited.

New York, May 4, 1846.

W. H. CALKINS, and Others.

To all whom it may concern:—This is to certify that the New Haven, Hartford and Springfield railroad co., have had in use six sets of F. M. Ray's patent trucks for the last 20 months, during which time it appears to me, they have proved to be the bes and most economical truck now in use.

[Signed.]

WILLIAM ROS, Sup't of Power.

I certify that F. M. Ray's Patent Equalizing Railroad Truck has been in usesanger car.

passenger car.

For simplicity of construction, economy in cost, lightness of material, and extreme case of motion. I consider it the best truck we have ever used. Its peculiar make also renders it less liable to be thrown off the track, when passing over any obstruction. We intend using it extensively under the passenger and freight cars of the above road.

Reading, Pa., October 6, 1845. [Signed.] G. A. Nicoll.,

Sup.t Transportation, etc., Philadelphia and Reading Railroad.

To all whom it may concern:—This is to certify that the N. Jersey Railroad and Transportation company have used Fowler M. Ray's Truck for the last seven months, during which time it has operated to our entire satisfaction. I have no hesitation in saying that it is the simplest and most economical truck now in use.

Jersey City, November 4, 1845. N. Jersey Railroad and Transp. Co.

This is to certify that F. M. Ray's Patent Equalizing Railroad Truck has been in use on the Long Island railroad for the last year, under a freight car.

For simplicity of construction, economy in cost, lightness of material and ease of motion, I consider it equal to any truck we have in use.

Long Island Railroad. Depot. [Signed.] John Leach.

Long Island Railroad Depot, [Signed,] JOHN LEACH,
Jamaica November 12, 1845. [Signed,] JOHN LEACH,
Sup't Motive Power

PATENT WIRE ROPES—FOR THE USE OF MINES, RAILWAYS, ETC.—
It case or imported to order by the subscriber.

These Ropes are manufactured on an entirely different principle from any other, and are now alcustively used in the collieries and on the railways in Great Britain, where they are considered cipal railroads in the country, effectually prevents to be greatly superior to hempen ones, or iron chains, as regards safety, durability and economy. The plan upon which they are made effectually secures them from corrosion in the interior, as well as the exterior of the rope, and gives a greater compactness and elasticity than is found in any other manufacture.

Many of these ropes have been in constant operation in the different mines in England, and on the

Many of these ropes have been in constant operation in the different mines in England, and on the Blackwall and other inclined planes, for three and four years; and are still in good condition.

They have been applied to almost every purpose for which hempen ropes have been used—mines heavy cranes, standing rigging, window cords, lightning conductors, signal halverds, tiller topes, etc. simple the statement for the relative strength and size. Testimonials from the most eminent engineers in England can be shown as to their efficiency, and any additional information required respecting the different descriptions and application will be given by

ALFRED L. KEMP,

75 Broad street, New York, sole agent in the United States.

Statement of Trial made at the Woolwich Royal Dock Yard, if the Patent Wire Ropes, as compared with Hempen Ropes and Iron Chains of the same strength.—October, 1841.

100 mm and 2 mm	WIRE RO			EN ROPES.	CHA	INS.	STRENGT
Wire gauge	Circumference	Weight per fathom.	Circumference of rope.	Weight per fathom.	Weight per fathom.	Diameter of iron.	Tons.
agatara en	INCH.	LBS, OL.	INCH.	LBs. OZ.	LBS.	INCH.	
11000	SECTION 41 SECTION	13 5	10	24	50	15-16	20
13	31	8 3	81	16 -	27	11-16	134
14	time 3 Lamble	6 11	red & 7bear	12 8	17	9-16	101
15	21	5 2	61	9 4	131	1-2	19 Jan 1716
16	24	4 3	6	Service Bertaly	101	7-16	Bester 7 ag

The subset of the sale of the

the sale of Godorus, Glendon, Spring Mil and Valley, Have now a supply, and respectfully solicit the patronage of persons engaged in the making of Machinery, for which purpose the above makes of iron, all the bearers and fulcrums are made of the best cast steel, laid on blocks of granite, extending across the pit, the upper part of the scale only being ed Fire Bricks and prepared Kaolin or Fire Clay made of wood. E. Ellicott has made the largest orders for which are promptly supplied. Railroad Scale in the world, its extreme length was one hundred and twenty feet, capable of weighing ten loaded cars at a single draft. It was put on the Mine Hill and Schuylkill Haven Railroad. We are prepared to make scales of any size to weigh from five pounds to two hundred tons.

ELLICOTT & ABBOTT.

Factory, 9th street, near Coates, cor. Melon st. Office, No. 3 North 5th street, Philadelphia, Pa.

Jan. 2. [Itf]

Jan. 2. [Itf]

them.

It is never touched by passing trains, except when in use, preventing their running off the track. It is simple in its construction and operation, requiring only two Castings and two Rails; the latter, even it much worn or used, not objectionable.

Working Models of the Safety Switch may be seen at Messrs. Davenport and Bridges, Cambridgeport, Mass., and at the office of the Railroad Journal, New York.

Plans, Specifications, and all information obtained on application to the Subscriber, Inventor, and Pa-tentee G. A. NICOLLS, ja45

TO RAILROAD COMPANIES AND MANufacturers of railroad Machinery. The subscribers have for sale Am. and English bar iron, of all
sizes; English blister, cast, shear and spring steel;
Juniata rods; car axles, made of double-refined iron;
sheet and boiler iron, cut to pattern; tiers for locomotive engines, and other railroad carriage wheels,
made from common and double refined B. O. iron;
the latter a very superior article. The tires are

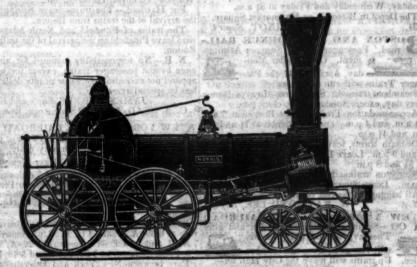
RAILROAD IRON.—THE NEW JERSEY
Iron Company, Boonton, N. J., are now making Railroad Bars, and are prepared to execute orders for any required pattern. Apply to
FULLER & BROWN, Agents,
No. 139 Greenwich, corner of Cedar street.
June 1, 1847. 100f

June 1, 1847.

RAILWAY IRON.—THE BEST QUALITY
of English Heavy H Rails—60 bs. to the yard
now in store, landing from the vessel, and on ship
board to arrive, for sale on most favorable terms by
DAVIS, BROOKS & CO.,
Jan. 2. [itf] 68 Broad St., New York.

### NORRIS' LOCOMOTIVE WORKS. BUSH HILL, PHILADELPHIA, Pennsylvania.

PORTLAND TRAINS a. M.A.



MANUFACTURE their Patent 6Wheel Combined and 8 Wheel Locomotives of the following descrip-

15 inches Diameter of Cylinder, × 20 inches Stroke. Class 1, × 24 2, × 20 \*\* 40 . 66 3, 141 66 × 20 26 66 44 44 124 u 66 22 44 44 20 44 44 5. 114 × 104 11 66 × 18 -1 600 6.

With Wheels of any dimensions, with their Patent Arrangement for Variable Expansion.

Castings of all kinds made to order: and they call attention to their Chilled Wheels, for the Trucks of Locomotives. Tenders and Cars.

NORRIS, BROTHERS

N. E. Screw Co. Provicence, R. I.

Eagle Screw Co. Provicence, R. I.

William Parker, Supt. Bost. and Worc. R. R.

New Jersey Malleable Iron Co., Newark N. J.

Gardiner, Harrison & Go. Newark, N. J.

25,000 to 30,000 made weekly.

BRINLEY, Manufacturer, Perth Amboy, N. J. Guaranteed equal to any, either domestic or foreign. Any shape or size made to order. Terms, a mos. from delivery of brick on board. Refer to James P. Allaire, Peter Cooper, Murdock, Leavirt & Co.

J. Triplett & Son, Richmond, Va.

J. R. Anderson, Tredegar Iron Works, Richmond, Va.

J. Patton, Jr.

Golwell & Co.

J. M. L. & W. H. Scovill, Waterbury, Con.

N. E. Screw Co.

Eagle Screw Co.

William Parks, Surf Rost and Work R. R.

Dobbs, Superintendent, will meet with immediate attention.

ANDREW C. GRAY, a 456 President of the Newcastle Manuf. Co.

VALUABLE PROPERTY ON THE MILLS Dam For Sale. A lot of land on Gravelly Point, so called, on the Mill Dam, in Roshury-fronting on and east of Parker street, containing 18,497 square feet, with the following buildings thereon standing.

Main brick building, 120 feet long, by 46 ft wide, wo stories high. A machine shop, 47x43 feet, with large engine, face, screw, and other lathes, suitable to do any kind of work.

Pattern shop, 35x32 fe, with lathes, work benches, Work shop, 86x35 feet, on the same floor with the pattern shop.

Forge shop, 118 feet long by 44 feet wide on the ground floor, with two large water wheels, each 16 feet long, 9 ft diameter, with all the gearing, shafts drums, pulleys, &c., large and small trip hammers, lurnaces, forges, rolling will, with large balance wheel and a large blowing apparatus for the foundry. Toundry, at end of main brick building, 60x454 feet two stories high, with a shed part 454x20 feet, containing a large air furnace, cupola, crane and corn oven.

Store house—a range of buildings for storage, etc.

corn oven. Store house-

corn oven.
Store house—a range of buildings for storage, etc., 200 feet long by 20 wide.
Locomotive shop, adjoining main building, fronting on Parker street, 54x35 feet.
Also—A lot of land on the canal, west side o Parker st., containing 6000 feet, with the following buildings thereon standing:
Boiler house 50 feet long by 30 feet wide, two stories.

For terms, apply to HENRY ANDREWS, State st., or to CURTIS, LEAVENS & CO., 1 State st., Boston, or to A. & G. RALSTON & Contradelphia.

TO LOCOMOTIVE AND MARINE ENgine Boiler Builders. Pascal Iron Works.
Philadelphia. Welded Wrought Iron Flues, suitable for Locomotives, Marine and other Steam Engine Boilers, from 2 to 5 inches in diameter. Also
Pipes for Gas, Steam and other purposes; extrestrong Tube for Hydraulic Presses; Hollow Pistons for Pumps of Steam Engines, etc. Manufacture I and for sale by
MORRIS TASKER & MORRIS,
Warttouse S. E. corner 3d and Walnut Sts., Philadelphia

delphia

Pipes. The subscribers continue to manufacture the above Pipes, of all the sizes and strength required for City or Country use, and would invite individuals or companies to examine its merits. This pipe, unlike cast iron and lead, imparts neither color, oxide or taste, being formed of strongly riveted sheet iron, and evenly lined on the inside with hydraulic cement. While in the process of laying it has a thick covering externally of the same—thus forming nature's own conduit of stone. The iron being thoroughly enclosed on both sides with cement, precludes the possibility of rust or decay, and renders the pipe truly indestructible. The prices are less than those of iron or lead. We also manufacture Basons and D. Traps, for Water Closets, on a new principle, which we wish the public to examine at 112 Fulton street, New York.

28tf

THE NEWCASTLE MANUFACTURING Company continue to furnish at the Works, situated in the town of Newcastle, Del., Locomotive and other steam engines, Jack screws, Wrought iron work and Brass and Iron castings, of all kinds connected with Steamboats, Railroads, etc.; Mill Gearing of every description; Cast wheels (chilled) of any pattern and size, with Arles fitted, also with wrought tires, Springs, Boxes and bolts for Cars; Driving and other wheels for Locomotives.

The works being on an extensive scale, all orders will be executed with promptxess and despatch. Communications addressed to Mr. William H. Dobbs, Superintendent, will meet with immediate attention.

ANDREW C. GRAY, after the communications and the Newcastle Manuf. Co.

Allroad Iron And Locomotives.

Allroad Iron And Locomotives and the promptxes and despatch. Tyres imported to order and constantly on hand by A. & G. RALSTON Mar. 2016

4 South Front St., Philadelphia.

ns in connection with the Lowell & Nash us Bailroads, run daily between

Leave Concord at 5 40 and 11 5 a.m. and 3 15 p.m.
Leave Concord at 5 40 and 11 5 a.m. and 3 15 p.m.
Leave Boston at 7 and 11 a.m. and 5 p.m.
This road runs by Nashua and Manchester to Concord N. H., where it connects with the Northern railroad, extending from Concord to the mouth of White river in Vermont, 18 miles of which road, to Franklin, is now opened, and the remainder is rapidly completing.

It is the direct route to Central and northern New Hampshire, and to Montpelier, Burlington, and other towns in northern Vermont, and has a greater proportion of railroad conveyance in those directions than any other line.

han any other line.

It is also the British Steam Mail Line, and the learest route from Boston to the Canadas. Numeous stages connect with all parts of the road.

For further information, apply at B. P. Cheney E. Co.'s Express office, No. 8 Court St., and Averille Dess, No. 15 Elm St.

All passengers' baggage should be properly markd, and when valued at more than \$50, notice must
e given, and extra charges paid, or no loss beyond
uch amount will be allowed.

N. G. UPHAM, Supt.

N. G. UPHAM, Supt.

OF WICH AND WORCESTER RAILRoad. Summer Arrangement. Change of
Hours. Commencing on
Wednesday, April 21, 1847.

Accommodation Trains, daily, (except Sunday.)
Leave Norwich, at 6 a. m., and 4; p. m.
The morning Accommodation Trains from
Norwich, and from Worcester, connect with the
trains of the Boston, and Worcester and Western
railroads each way.

The Evening Accommodation Train from Worcester connects with the 2; p.m. train from Boston.
New York Train via Steamboat—Leave Norwich for Boston, every morning, except Monday, on
the arrival of the stamboat from New York, stopping at Norwich and Danielsonville.

Leave Worcester for New York, upon the arrival
of the train from Boston, at about 6; p.m., daily, except Sunday, stopping at Danielsonville and Norwich.

Excited Trains daily each way except Sunday.—

Freight Trains daily each way, except Sunday.— eave Norwich at 7, and Worcester at 6 30 a.m. pecial contracts will be made for cargoes, or large manties of freight, on application to the superinten-

Fares are Less when paid for Tickels than when the ind in the Cars. II J W. STOWELL, Sup't ONG ISLAND RAILROAD COMPANY

ONG ISLAND RAILROAD COMPANY.

Summer Arrangement. On and after Monday
May 1st, trains will run as
follows, except Sundays:

Leave—Brooklyn at 9 1-2 a.m. for Farmingdale,
1 1-2 p.m. for Greenport, at 4 p.m. for Farmingdale,
Leave Farmingdale at 7 a.m for Brooklyn, 12 m.
do., at 3 1-4 do. do.

Leave Greenport at 8 1-2 a.m. for Brooklyn.
Leave Jamaica at 8 a.m. for Brooklyn, at 1 p.m.

Leave Jamaica at 8 a.m. for Brooklyn, at 1 p.m. lo., at 41 p.m do.

On Saturdays, a train will leave Brooklyn for Yaphank, at 4 p.m. Leave Yaphank, on Mondays for Brooklyn at 5 1-9 a.m.

On and after May 15th, and until September 1st, 1817, a train will leave Jamaica at 7 a.m. for Brooklyn—leave Brooklyn at 6 p.m. for Jamaica, and will land and receive passengers at any place between Brooklyn and Jamaica.

On Sundays—leave Brooklyn at 8 1-2 a.m. for Farmingdale; leave Farmingdale at 4 p.m. for Brooklyn.

clyn.

aght Trains—leave Brooklyn at 10 a.m. for
apert, leave Greenport at 12 m. for Brooklyn.

ggage crates will be in readiness at the foot of
tehall street, to receive baggage for the several

a, 30 minutes before the hour of starting from
Brooklyn side.

"Statesman." Captain Nash, leaves

the steamer "Statesman," Captain Nash, leaves emport for Sag Harbor on the arrival of the Ac-modation train from Brooklyn. DAVID S. IVES, Sup't.

BOSTON AND MAINE RAILROAD. or Route, to Portland and the East SUMMER ARRANGEMENT,

August 24, 1847.
PORTLAND TRAINS

PORTLAND TRAINS.
Leave Boston at 7 A.M. and 2; P.M.
Leave Portland at 7; A.M. and 3 P.M.
GREAT FALLS TRAIN.
Leave Boston at 5 P.M.
Leave Great Falls at 6; A.M.
LAWRENCE TRAINS.
Leave Boston at 7; 11; a.m., 2; 5, 6; p.m.
Leave Lawrence at 6; 8; 11 a.m., 4; 6; p.m.
HAVERHILL TRAINS.

HAVERHILL TRAINS.
Leave Boston at 111 A.M. and 620 P. W.
Leave Haverhill at 61 A.M. and 44 P.M.
READING TRAINS.
Leave Boston at 81 A.M. and 84 P.M.
Leave Reading at 6 A.M. and 11 P.M.
MEDFORD BRANCH TRAINS.

Leave Boston at 71, 9 a.m., 18 m., 24, 54, 7 p.m. Leave Medford at 61, 8, 101 a.m., 11, 44, 6 p.m. STEAMBOAT TRAINS:

Leave Boston for Hallowell, Me., and towns on the Kennebec, every Tuesday, Thursday and Satur-day at 7 a.m. Leave Hallowell for Boston, every Monday, Wednesday and Friday at 8½ a.m. The Depot in Boston is on Haymarket Square. 1y31 CHAS. MINOT, Super't.

BOSTON AND PROVIDENCE RAILroad. Passenger Notice. Summer Arrangement. On and after Monday, April 5, 1847, the Passenger Trains will run as follows:
Steamboat train via Stonington—Leaves Boston

every day, except Sunday, at 5 o'clock p.m.

Accommodation Trains—leave Boston at 7 and 101 a.m. and 4 p.m., and Providence at 71 and 101

Dedham trains, leave Boston at 8 a.m., 12t, 3t 6t and 9 p.m., Leave Dedham at 7 and 9t a.m. and 2t, 5t and 8 p.m.

64 and 9 p.m., Leave Dedham at 7 and 9½ a.m. and 2½, 5½ and 8 p.m.

Stoughton trains, leave Boston at 11½ a.m. and 5½ p.m. Leave Stoughton at 7 10 a.m. and 3½ p.m. All baggage at the risk of the owners thereof.

25tf W. RAYMOND LEE, Supt.

NEW YORK & HARLEM RAILROAD

CO.—Summer Arrangement.—On and after Tuesday, June 1st, 1847, the cars will run as follows, until further notice. Up trains will leave the City Hall for—Yorkville, Harlem and Morrisana at 6, 8 and 11 a.m., 2, 2 30, 5 and 7 p.m.

For Morrisiana, Fordham, Williams' Bridge, Tuckahoe, Hart's Corner and White Plains, 7 and 10 a.m., 4 and 5 30 p.m.

For White Plains, Pleasantville, Newcastle, Mechanicsville and Croton Falls, 7 a.m. and 4 p.m.—Freight train at 1 p.m.

reight train at 1 p.m.
Returning to New York, will leave—
Morrisiana and Harlem, 7, 8 20 and 9 a.m., 1, 3,

Norrisana and Harlem, 7, 8.20 and 9 a.m., 1, 3, 30, 6, 6 28 and 8 p.m.

Fordham, 8 08 and 9 15 a.m., 1 20 and 6 15 p.m.

Williams Bridge, 8 and 9 08 a.m., 1 10, 6 08 p.m.

Tuckahoe, 7 38 and 8 25 a.m., 12 55 and 5 52 p.m.

White Plains, 7 10 and 8 35 a.m., 12 50, 5 35 p.m.

Pleasantville, 8 15 a.m., and 5 15 p.m.

Newcastle, 8 a.m. and 5 p.m. Mechanicsville, 7 48 a.m. and 4.48 p.m. Croton Falls, 7 30 a.m. and 4 30 p.m. Freight

train at 10 a.m.

Freight train will leave 32d street for Croton Falls and intermediate places, 4 a.m. and City Hall 1 p.m.

Returning, leave Croton Falls 10 a.m. and 94 p.m.

ON SUNDAYS, the trains will run as follows:
Leave City Hall for Croton Falls, 7 a.m., 4 p.m.

Croton Falls for City Hall, 7 30 a.m., 4 30 p.m.

Leave City Hall for White Plains and intermediate places, 7 and 10 a.m., 4 and 5 30 p.m.

White Plains for City Hall, 7 10 and 8 35 a.m.,
12 30 and 5 35 p.m.

Extra trains will be run to Harlem, Fordham and
Williams Bridge on Sunday, when the weather is

Williams Bridge on Sunday, when the weather is

The trains to and from Croton Falls will not stop on N. York island, except at Broome st. and 32d st. A car will preceed each train 10 minutes to take up passengers in the city

WESTERN HAILRUAD. ON AND AF ter Monday, April 5, 1647, the passenge htrains will leave daily, Sun-days excepted, as follows:

Boston at 8 a. m. and 4 p. m. for Albany.
Albany at 7 1-4 a. m. and 5 p. m. for Boston.
Springfield at 8 1-2 a. m. and 1 p. m. for Albany.
Springfield at 8 1-2 a. m. and 1 1-2 and 3 p. m. (or on arrival of the train from New York) for Boston.
Day line to New York, via Springfield.—The steamboat train leaves Boston at 6 a. m., and arrives in New York at 7 p. m., by the steamboats Traveller, New York, or Champion. Returning, leaves New York at 6 1-4 a. m., and arrives in Boston at 7 p. m.

New York at 61-4 a. m., and arrives in Boston at 7 p. m.

Night line to New York.—Leaves Boston at 4 p.

m., and arrives in New York at 5 a. m.

Albany and Troy.—Leaves Boston at 8 a. m.,

Springfield at 1 p. m., and arrive in Albany at 6 p.

m.; or, leaves Boston at 4 p.m., Springfield next morning at 81-2, and arrive in Albany at 1 1-2 p.m.

The Troy trains connect at Greenbush.

The trains for Buffalo leave at 71 a.m. and 7 p.m.

For Northampton, Greenfield, etc.—The trains of the Connecticut River Railroad leave Springfield at g 1-4 a.m., 1 and 3 p.m., and passengers proceed directly on to Brattleboro', Windsor, Bellows Falls, Walpole, Hanover, Haverhill, etc.

Walpole, Hanover, Haverhill, etc.

For Hartford.—The trains leave Springfield on the arrival of the trains from Boston.

The trains of Pittsfield and North Adams Rail-road leave Pittsfield on the arrival of the trains from

N. B .- No responsibility assumed for any baggage by the passenger trains, except for wearing apparel not exceeding the value of fifty dollars, un-

apparel not exceeding the less by special agreement.

JAMES BARNES, Sup't and Eng'r.

C. A. SEAD, Agent, 27 State street, Boston.

NEW YORK AND ERIE RAILROAD LINE SUMMER ARRANGEMENT. For passengers, twice each way daily, (except Sunday,) leave New

York from the foot of Dnane St. at 7 o'clock, A. M. and at 4 o'clock, P. M. by steamboat, for Piermont, thence by cars to Ramapo, Monroe, Chester, Goshen, Middletown, Otisville, and the intermediate

The return trains for New York will leave Otisville at 6 30, A. M. and 4 15, P. M.; Middletown at 7 A. M. and 4 46, P. M.; Goshen at 7 22, A. M. and 5 3, P. M.; Chester at 7 35, A. M. and 5 18, P. M. Fare between New York and Otisville, \$1 50;

way-fare in proportion.
For Milk-Leave Otisville at 51 o'clock, morn-

ing and evening.

For Fright — The barges "Samuel Marsh and "Henry Suydam, Jr." will leave New York (from the foot of Duane St.) at 5 o'clock, P. M. daily (ex-

the foot of Duane St.) at 5 o'clock, P. M. daily (except Sundays.)

No freight will be received in New York after 5 o'clock, P. M.

Freight for New York will be taken by the trains leaving Otisville at 104 o'clock, A. M.; Middletown at 114, A. M.; Goshen at 124, P. M.; Chester at 1 o'clock, P. M., etc., etc.

For farther particulars, apply to J. F. CLARK-SON, Agent, corner of Duane and West Sts., New York, or to S. S. POST, Superintendent Transportation, Piermont.

24tf H. C. SEYMOUR, Sup't.

GREAT SOUTHERN MAIL LINE! YIA Washington city, Richmond, Petersburg, Wel-

REAT SOUTHERN MAIL LINE! VIA Washington city, Richmond, Petersburg, Weldon and Charleston, S. C., direct to New Orleans. The only Line which carries the Great Southern Mail, and Twenty-four Hours in advance of Bay Line, leaving Baltimore same day.

Passengers leaving New York at 41 P.M., Philadelphia at 10 P.M., and Baltimore at 61 A.M., proceed without delay at any point, by this line, reaching Richmond in eleven, Petersburg in thirteen and a half hours, and Charleston, S. C., in two days from Baltimore.

Fare from Baltimore to Charleston. .... \$21 00

" Richmond ...... 6 60
For Tickets, or further information, apply at the Southern Ticket Office, adjoining the Washington Railroad Office, Pratt street, Baltimore, to 1914 STOCTON & FALLS, Agents.

TO SPRINGFIELD—Distance 84 miles connecting at Xinia and Springfield with Messrs. Neil, Moore,

& Co's daily daylight lines of stages going east
and north, to Columbus, Zanesville, Wheeling,
Cleveland, and Sandusky City via Urbana, Bellefontaine, Kenton, and the Mad river and lake Erie
railroad, or Columbus, Delaware, and the Mansfield
and Sundusky City railroad—forming, by these connections, the cheapest and most expeditious route to
Buffalo, Niagara Falls, Roehester, Albany, New
York, and Boston.

On and after Thursday, Apparet 18 On and after Thursday, August 13, 1846, until

Leave Cincinnati daily at 9 A. M., for Milford, Foster's Crossing, Deerfield, Morrow, Fort Ancient, Freeport, Waynesville, Spring Valley, Xenia, Old Town, Yellow Springs, and Springfield.

Returning, will leave Springfield at 4 hours 35 minutes A. M. A line of Hacks runs in connection with the Cars, between Deerfield and Lebanon.

FARS—From Cincinnati to Lebanon.

FARS—From Cincinnati to Lebanon...\$1 00

" " Kenia .... 1 50

" " Springfield... 2 00

" " Columbus... 4 00

" " Sundusky city 8 00

The Passenger trains runs in connection with Strader & Gorman's line of Mail Packets to Louis-

Tickets can be procured at the Broadway Hotel Dennison House, or at the Depot of the Company on East Front street.

Further information and through tickets for the Stage lines, may be procured at P. Campbell, Agent on Front street, near Broadway.

The company will not be responsible for baggage beyond 50 dollars in value, unless the same is returned to the conductor or agent, and freight paid at of a passage for every \$500 in value over that

The 14 P. M. train from Cincinnati, and the 2 40 P. M. train fign. Zenia, will be discontinued on and after Monday, the 10th instant.

A freight train will run daily. W. H. CLEMENT, Sup't.

PATERSON RAILROAD Commencing April 20th, 1847, the cars will leav
Paterson at
New York at
8 o'clock a.m.
94 o'clock a.m. 111 o'clock a.m 12 1-4 o'clock p.m.

114 o'clock p.m.

On Sunday.

94 o'clock a.m.

o'clock p.m. 4 o'clock p.m. 5i o'clock p.m. 25tf Office 75 Courtlandt St.

BALTIMORE AND OHIO RAILROAD.
MAIN STEM. The Train carrying the
Great Western Mail leaves Bal-Great Western Mail leaves Baltimore every morning at 71 and Cumperiand at 8 o'clock, passing Ellicott's Mills, Frederick, Harpers Ferry, Martinsburgh and Hancock, conneting daily each way with—the Washington Trains at the Relay House seven miles from Baltimore, with the Winchester Trains at Harpers Ferry—with the various railroad and steamboat lines between Baltimore and Philadelphia and with the lines of Post Coaches between Gumberland and Wheeling and the fine Steamboats on the Monongahela Slack Water between Browns-ville and Pittsburgh. Time of arrival at both Cumberland and Baltimore 54 P. M. Fare between those points 57, and 4 cents per mile for less distances. Fare through to Wheeling \$11 and time about 36 hours, to Pittsburgh \$10, and time about 32 hours. Through tickets from Philadelphia to Wheeling \$13, to Pittsburgh \$12. Extra train daily except Sundays from Baltimore to Frederick at 4 P. M., and from Frederick to Baltimore at 8 A. M.

WASHINGTON BRANCH.

Daily trains at 9 A. M. and S. D.

S13, to Pittsburgh \$12 Extra train daily except Sundays from Baltimore to Frederick at 4 P. M. and from Frederick to Baltimore at 8 A. M. WASHINGTON BRANCH.

Daily trains at 9 A. M. and 5 P. M. and 12 at night from Baltimore and at 6 A. M. and 5 P. M. and 6 P. M. and 6

BALTIMORE AND SUSQUEHANNA
Railroad.—Reduction of Fare. Morning and
Afternoon Trains between Balti-PARE.

Wrightsville.....Columbia... Way points in proportion. PITTSBURG, GETTYSBURG AND
HARRISBURG.

Through tickets to Pittsburg via stage to Har-

EXINGTON AND OHIO RAILROAD.

Trains leave Lexington for Frankfort daily,
at 5 o'clock a.m., and 2 p.m.

Trains leave Frankfort for Lexington daily, at 8 o'clock a.m. and 2 p.m. Distance, 28 miles. Fare \$1.25.

On Sunday but one train, 5 o'clock a.m. from Lexington, and 2 o'clock p.m. from Frankfort.

The winter arrangement (after 15th September to

The winter arrangement (after 15th September to 15th March) is 6 o'clock a.m. from Lexington, and ma. 9. from Frankfort, other hours as above. 351x CENTRAL AND MACON AND WEST-

ern Railroads, Ga.—These Roads with the Western and Atlantic Railroad of the State of Georgia, form a continuous line from Savannah to Oothcaloga, Ga., of 371 miles, viz:

On Weight Goods -Sugar, Cof-

fee, Liquor, Bagging, Rope, Butter, Cheese, Tobacco, Leather, Hides, Cotton Yarns, Copper, Tin, Bar & Sheet Iron, Hollow Ware &

0 20 pr. 100lbs. 35 0 15 " " 35

CENTRAL RAILROAD-FROM SAVA
This Road is spen for the trans-

portation of Passengers and Freight. Rates of Passenge, 88 00. Freight On weight goods generally... 50 ets. per hu On measurement goods ........ 13 cts. per cu On measurement goods ..... On bris. wet (except molasses

THE WESTERN AND ATLAN
Railroad.—This Road is now in operation to the control of t

road.
From Kingston, on this road, there is a tri-weekly line of stages, which leave on the arrival of the cars on Tuesday, Thursday and Saturday, for Warrenton, Huntsville, Decatur and Tuscumbia, Alabama, and Memphis, Tennessee,
On the same days, the stages leave Oothcaloga of Chattanooga, Jasper, Murireesborough, Knoznita, wille and Nashville, Tennessee.

This is the most expeditious route from the east to any of these places.

CHAS. F. M. GARNETT. Atlanta, Georgia, April 16th, 1846. 191

FARE BETWEEN NEW YORK & PHILA.

#### ELPHIA AND READING RAIL Passenger Train Arrange ROAD .-- Pas

A Passenger Train will leave elpha and Pouville daily, except Surlock A M

ain from Philadelphia arrives at Reading

The Train from Pottsville arrives at Reading at

Fares. Miles No. 1: No. 2: See Phila, and Pottsville, 92 \$3.50 and \$3.00 Reading, 58 2.25 and 1.90 Pottsville " 34 1.40 and 1.20

nutes allowed at Reading; and three at lations.

Topot in Philadelphia corner of Broad treets.

## HILADELPHIA, WILMINGTON & BALTIMORE RAHROAD.--1847.

Summer Arrangement.

Philadelphia for Baltimore. AS a.m. and 10 p.m.
Baltimore for Philadelphia ... 9 a.m. and 8 p.m.
Connecting with Mail Lines North, South & West.

On Sundaya, mly the 10 P. M. Lines run.
The Boat Lines, via Neweautle & Frenchtown R.R.
Leave Philadelphia at 31 p.m. 7 No line on SunLeave Baltimore at 3 p.m. 7 No line on SunLeave Baltimore at 3 p.m. 7 No line on SunLeave Baltimore at 3 p.m. 7 No line on SunLeave Baltimore at 3 p.m. 7 No line on SunLeave Baltimore at 3 p.m. 7 No line on SunLeave Baltimore at 3 p.m. 7 No line on SunLeave Baltimore at 3 p.m. 7 No line on SunLeave Baltimore at 3 p.m. 7 No line on SunLeave Baltimore at 3 p.m. 7 No line on SunLeave Baltimore at 3 p.m. 7 No line on SunLeave Baltimore at 3 p.m. 7 No line on SunLeave Baltimore at 3 p.m. 7 No line on SunLeave Baltimore at 3 p.m. 7 No line on SunLeave Baltimore at 3 p.m. 7 No line on SunLeave Baltimore at 3 p.m. 7 No line on SunLeave Baltimore at 3 p.m. 7 No line on SunLeave Baltimore at 3 p.m. 7 No line on SunLeave Philadelphia at 31 p.m. 7 No line on SunLeave Philadelphia at 31 p.m. 7 No line on SunLeave Philadelphia at 32 p.m. 7 No line on SunLeave Baltimore at 3 p.m. 7 No line on SunLeave Philadelphia at 31 p.m. 7 No line on SunLeave Philadelphia at 32 p.m. 7 No line on SunLeave Philadelphia at 32 p.m. 7 No line on SunLeave Philadelphia at 32 p.m. 7 No line on SunLeave Philadelphia at 32 p.m. 7 No line on SunLeave Philadelphia at 32 p.m. 7 No line on SunLeave Philadelphia at 32 p.m. 7 No line on SunLeave Philadelphia at 32 p.m. 7 No line on SunLeave Philadelphia at 32 p.m. 7 No line on SunLeave Philadelphia at 32 p.m. 7 No line on SunLeave Philadelphia at 32 p.m. 7 No line on SunLeave Philadelphia at 32 p.m. 7 No line on SunLeave Philadelphia at 32 p.m. 7 No line on SunLeave Philadelphia at 32 p.m. 7 No line on SunLeave Philadelphia at 32 p.m. 7 No line on SunLeave Philadelphia at 33 p.m. 7 No line on SunLeave Philadelphia at 32 p.m. 7 No line on SunLeave Philad

EORGIA RAILROAD. FROM AU-GUSTA to ATLANTA-111 MILES. This Road in connection with

ern and Atlantic Railroad and ern and Atlantic Railroad now forms a conustine, 408 miles in length, from Charleston (Cross Plains) in Murray county, Ga.—les from Chattanooga, Tenn. the South Carolina Railroad and

the starts leave Codenies and starts and starts are sta	Between Augusta and Dalton	Between Charleston and Dalton
carped alone route iron the cost on	STATE OF THE PARTY OF THE	408 miles.
1st class Boxes of Hats, Bonnets,	3	
and Furnsture, per cu-	A THE VA	10.00
bie foot.	80 18	80 28
2d class. Boxes and Bales of Dry Goods, Sadlery, Glass,	STREET,	WATE
Paints, Drugs and Con-	a entity	ustr # 1
fectionary, per 100 lbs.	1 00	1 50
3d class Sugar, Coffee, Liquor,	TE specialist	STOREST P. N.
Bagging, Rope, Cotton	ins.E. C	30 A. L
Yarns, Tobacco, Lea-	J30 3/17	
ther, Hides, Copper,	art guin	to to
Tin, Feathers, Sheet	ti teliqu	institution of
Iron, Hollow Ware,	0.00	0.05
4th class. Flour, Rice, Bacon, Pork,	0 00	0 00
	SERVICE A	CK 1,238774
Beef, Fish, Lard, Tal- low, Beeswax, Bar	3 3 3 3	A SALA
Iron, Ginseng, Mill	Dispersion by	
Gearing, Pig fron, and	Esar-weine	Passet
Grindstones, etc.	0 40	0.65
Cotton, per 100 lbs	0 45	0.7
Molames, per hogshead.	8 50	13 50
whater a " barrel	2 50	1 22
Salt per bushel	0.18	atididens
Salt per Liverpool sack Ploughs, Corn Shellers,		Soat Jiam
Cultivators, Straw Cut		194 O 0 195
ters, Wheelbarrows	0 75	1 50

an or other emigrants, in lots of 20 or ill te carried over the above roads at 2 cents

Goods consigned to S. C. Railroad Co will be rwarded free of commissions. Freight payable at alton.

Supt. of Transportation.

Augusta, Ga., July 15, 1847.

44\*1y

### RATES OF FREIGHT

On CHANDLER'S Through Transportation Line, between Charleston, S. C., or Savannah, Ga., and Decatur, Ala., and Knoxville, Tenn., and all intermediate points on the Tennessee River,

(489)	COLUMN TO SECURE A SECURE OF THE SECURE OF T	172 28 30	2000000	DEC. LAURA	022006
reon	and Decause and immediate points.	100 O	35	1 05	080
Neen M	and Knoxvitte & intermediate points	1620	3	011	0.76
Berry	and Chattanooga.		Adligation	die 7 a	190
gusta	and Decatur and intermediate points,	20 24	2	1 16	0 85
en Au	and Knoxville & intermediate points.	A MANAGE	2	1 30	080
Betw	and Chattanooga.	hernin	int ed to	erinda, I i	0 65
leston	and Decatur and intermediate points.	90 325	08 8	1 35	1 05
n Char	and Knoxville & intermediate points.	00 32	88	1 40	1 00
etwee	and Chattanonga,	DESCRIPTION OF THE	( S) ( S) ( S) ( S)	or to the second	90 86

s.—Boxes of Hats, Bonnets and Furniture per tout.

Boxes and Bales of Dry Goods, Shoes, Saddlery, Glass, Paints, Oils, (in cans) Drugs, Confectionaries, Shovels, Spades, Scythes, Smiths Bellows, Baskets, Tubs, Sifters, Brooms and other light articles, per 100 lbs.

"Tobacco, Leather, Feathers, Hides, Wool, Copper, Tin, Sheet-iron, Nails, Casks, or Grates of Crockery, Hadware, and other heavy articles not enumerated below. Ware, and other heavy articles not enumerated below. Iow, Butter, Beeswar, Bales of Rags, Ginseng, Green and Dried Fruit, (in casks or sacks) Pig-iron and Linseld Oil, per 100 lbs. N WEE F

Merchandize shipped from any of the northern ports, must be consigned to R. R. AGENT, CHARLESTON, S. C., or R. R. AGENT, SAVANNAH, GA.: and every package must be marked, care of B. CHANDLER, Chattanooga.

Charges will accompany the goods, and be col-lected by the boats on the Tennessee river, when delivered to the owner or consignee

The warehouse of the undersigned will be en-larged during the summer, and an apparatus attach-ed for hoisting or lowering freight to the river, with-out soil or injury.

He will have a train of wagons under his entire control, sufficient to conduct the fall business with great despatch.

B. CHANDLER. Chattanooga, Tenn., July 1, 1847.

REGULAR RATES BETWEEN ATLANTA AND CHARLESTON

and set they seed you on SAYANNAH.	950
First class, per foot	9
Second class, per 100 lbs	
Cotton, per 100 lbs	55
	66
	1 50

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No. 105 Chestnut Street, Philadelphia.
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